# Successful Farming

May 1950 · 20 cents

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AMERICA'S MOST LUXURIOUS MATTRESS

## 2 GREAT COMPANIES JOIN FORCES FOR YOUR COMFORT

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THE GREATEST NAME IN RUBBER

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## ON AN *Airfoam** MATTRESS

*Also available in wood rose stripe*

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**No other foundation** looks like this inside. Joined only through the middle by flexible steel bands, each spring in the upper half is free to adjust individually to every move. Lower part acts as a unit, supports body in the firm manner doctors recommend.

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**GOODYEAR**

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CARLOCK, ILL.—Betty Hartter named her Angus calf "Lucky Strike". Perfect name! At '49 International Live Stock exposition junior show "Lucky" took Reserve Championship. Brought $1.60 per pound at auction!

* * *

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Successful
# Farming
The Dairy Farmer

THE MAGAZINE OF FARM BUSINESS AND FARM HOMES

May 1950 Vol. 48, No. 5


**Cover photograph by George Leavens**
**Cover story, page 15**


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# Weather Eye on Tomorrow...

EVERY FARMER agrees that it's wise to get things done fast when the time and the weather are just right. Because a sudden change can cause delay and needless loss.

And yet it's amazing how many men, knowing from experience how fickle and how unpredictable the future can be, will put off making plans for their families' security until it's too late.

If getting things done in time applies to protecting a harvest against loss, it most certainly applies to protecting your wife and children through life insurance.

Then you're always sure of two things, come what may. You're sure your family would have income enough to be able to get along and keep the farm running even if you should happen to die unexpectedly. And you're sure of having something extra to fall back on in your own later years.

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# Farm Outlook

**Latest information on conditions, production, markets, and income prospects**

### *Your customers have money*

Over the long run, farm prices are set by people with money in their pockets. Not by politicians with votes in mind. This means you must be as interested in city employment statistics as you are in the weather.

For the rest of the year, those employment figures look good. Autos, new buildings, freight cars, machine tools, and most other manufactured products are in strong demand. Factories will be kept busy. They will keep their labor busy. Your customers will have money to spend for food.

As a result, your 1950 income prospects are brighter than the government last Winter predicted they would be. January-March cash receipts from crops and livestock fell only 5 percent below a year ago. You actually sold *more* dollars' worth of wheat, corn, soybeans, beef cattle, and lambs. But hogs, poultry, eggs, and milk were down.

### *Are we just ahead of our markets?*

Here's an interesting way of looking at our "surplus" problem, even if it doesn't immediately solve it.

Industrial production is not increasing as fast as our population is. Sooner or later, new and bigger plants will have to be built to produce all the things needed when today's big baby crop grows up. But farmers are *already* prepared to satisfy a bigger consumer and industrial demand for farm products. Capacity already is expanded.

All of which suggests that, perhaps, if we can find a sensible way of handling our big production in the meantime, our market probably will grow up to meet us.

### *How laws are managed counts, too*

Discount the gloomy talk from agricultural Washington, which seems bent upon new experiments to manage your business. Bad government management of the potato and egg programs should not be allowed to wreck *all* price supports. Congress never directed the Commodity Credit Corporation to take top grades of potatoes off the market (as C.C.C. did last year), nor to have low-grade eggs manufactured into powder for price support. This was the C.C.C. administrators' decision. It resulted in a decline in consumer demand for potatoes and the production of egg powder for which there was no market.

### *Crops, animals now balance*

Your March planting intentions seemed to be in the right direction. If you are now following through on them, total farm production should be close to last year's. There will be more meat, milk, and eggs, offsetting smaller crops. Crops and livestock are now in the best balance since the war.

### *Lots of hogs*

Hogs will likely be down through mid-June, reflecting last fall's big pig crop. This spring's litters will flood the market this fall, too. It will be more important than ever to push your pigs for an early market.

Over the year, both hogs and cattle will average lower than last year. For next year: Expert guessers place this fall's pig crop at the same size as last year's. They expect cattle slaughter volume to increase in 1951, with perhaps some softening in price.

### *Tough chickens are tough to sell*

Consumers feel that a two- or three-year tour of duty in the barnyard is not the best background for a good frying chicken. As a result, commercial broiler areas continue to bite into the farm meat-chicken business. These commercial broilers accounted for only a sixth of the meat-chicken business before the war. Now they have a third of the market. Low prices, sometimes bordering on distress, rarely discourage commercial broiler men. They turn their flocks four times a year, and hope to hit the jack pot on at least one of their four tries.

Though the frying-pan market for farm flocks is thus becoming smaller, the next year should be good for well-managed farm laying flocks. Total egg production will decline, thus strengthening the market.

### *More milk — more trouble*

There will be more milk than usual during May and June. Cow numbers have been increasing, and production per cow is up. Blend prices during the flush months will average lower, and you will be pressured to level off your seasonal milk production. Quota plans will be dusted off, as will other methods of penalizing you for high summer production. Some fluid milk markets are even considering restrictions on the number of producers who can sell in their markets.

Fall production is profitable. If you have not yet adjusted your dairy breeding program to bring heavier fall production, you might want to make plans to do so.

### *There'll be beans everywhere*

Don't get too enthusiastic over the recent prices of soybeans. Old beans have been scarce, but the next 30 days will see tremendous piles of beans go into the ground. There'll be lots of beans this fall. Some folks say as many as 300 million bushels. The most we ever had before was 223 million, in 1948.

### *No end to corn surplus*

You're planting corn this month. How fast have we been using up what we grew last year, and the year before?

U.S.D.A. says we enter into the year with 180 million more bushels in the country than the year before, but with 150 million *less* on farms. There was a rapid movement off farms in the fall. But that rate won't continue, of course. There are only 4 or 5 percent more animals to eat it than there were last year. Our carryover this coming fall may be 10 or 15 percent higher than last fall.

### *Land is going down*

The decline in net farm income has already been reflected in land values; they have gone down. They are expected to go down more. Keep this in mind if you're thinking of buying.

And remember, too, that livestock and used machinery are falling even faster than land. Don't load up unless you know what you are doing and see your way clear to make the land, livestock, and machinery pay out, even on a falling market.

One way to do it is to keep your volume of business high. For every price or acreage cut, plan something else to keep your income up. *It can be done.* Good managers are doing it. They are using smart soil fertility techniques to push their per-acre yield higher. They are saving more pigs per litter. They are switching to high-yielding forage crops, and are taking a seed crop if they can.

Greater efficiency is always the cheapest way to boost your total farm income. Don't add acres or cows or sows until you're doing the best job possible with what you have. **END**

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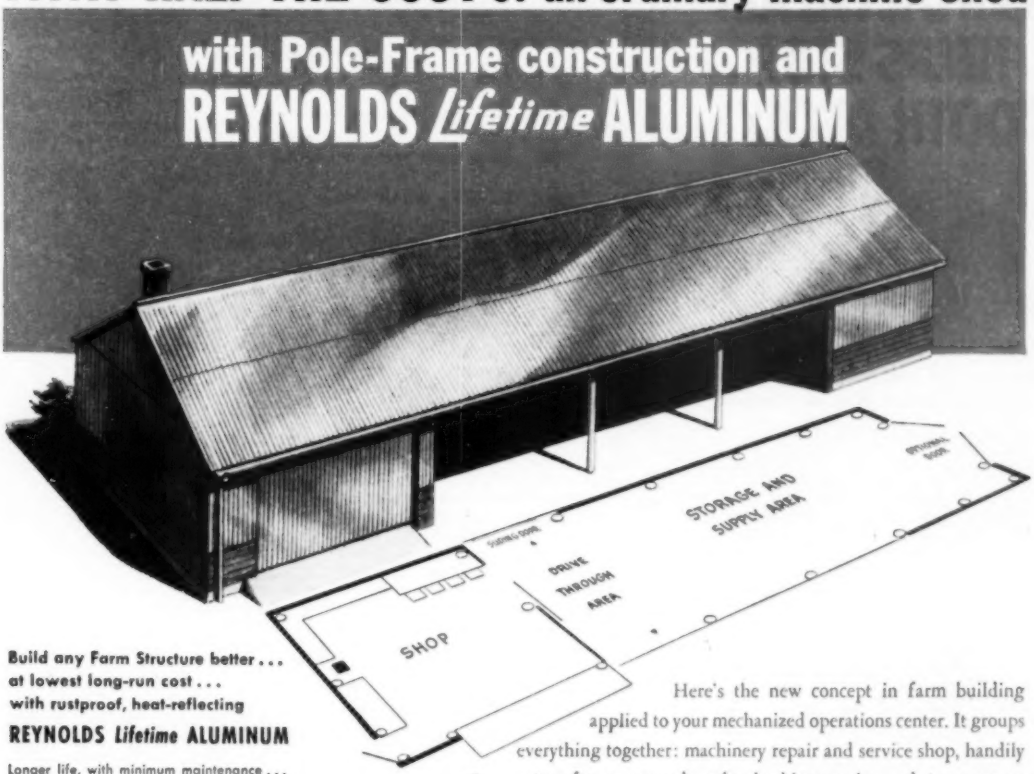
# ...AT HALF THE COST of an ordinary machine shed

## with Pole-Frame construction and
## REYNOLDS *Lifetime* ALUMINUM

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Developed by the Doane Agricultural Service, this building is the second of a series of modern farm designs made available as a service of Reynolds Farm Institute. For detailed plans, directions for construction, list of materials and sources for treated poles, send $5.00 with the coupon.

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# THE FARMER'S Washington

**By Richard Wilson**

- Truman, Brannan are heckled
- Your roads won't get better
- Running out of water?
- Brannan ready to change his plan?

**Phone trouble.** Secretary of Agriculture Charles F. Brannan and President Truman have been personally bedeviled lately by farm program opponents. Every day, while the president was on vacation in Florida, he received a wireless or telegraph message from Representative Heselton (Republican, Massachusetts) reminding him that the farm program was costing $100 per minute.

Brannan's difficulty was even more personal. A jovial student of public affairs managed to get Brannan's private, unlisted telephone number at home. "Every night, for a long time," Brannan said, "the phone would ring after I went to bed and this stew would ask, with a lot of profanity, 'How about those potatoes and eggs!' "

**Bugs.** This will be a big year for bugs, according to experts at the Department of Agriculture. A mild winter in the East has made infestation of the various pests more likely. The corn borer is expected to be worse in the Midwest. The winter in the western part of the Wheat Belt has been kind to grasshopper eggs.

**Survey.** After a conference with Dr. George Gallup, the poll taker, Representative Thomas E. Martin (Republican, Iowa) decided to take a poll of his own in his congressional district. So far as is known, this was never done before by any congressman—at least to the extent Martin carried it.

He mailed out questionnaires to 25,000 residents of his eastern Iowa district and received 4,000 replies, fairly well balanced between farm and town.

A tabulation showed that Representative Martin's constituents: don't want the Brannan Plan; do want the Taft-Hartley Act; prefer to see taxes spent on national defense, but want other federal costs reduced; want the Marshall Aid Plan continued, but also want to stop sending arms to Europe.

While Martin, in general, found himself in agreement with his district, there were some points on which he differed with the voters.

**Worn-out roads.** In many states, farmers are bumping to market or to the movies or to a night meeting at the schoolhouse over some bad roads. The situation, generally, is not likely to get much better, according to government highway experts. A Federal Bureau of Public Roads report says: "It is doubtful our roads will be as adequate 15 years from now as they are for today's traffic." Big spurt in road building came from 1920 to 1930, and a road's average life is from 20 to 30 years. Thus, many roads which once were smooth highways are now in their wrinkled old age.

**Water myth.** Maybe because mighty New York City has suffered a water shortage, the idea has spread—even with encouragement from the White House—that the country is running dry. It may be true that many communities have not planned ahead for their water supply as they should. But the idea of a real water shortage is bunk, according to the American Geological Institute.

Quite to the contrary, the Institute reports that "the present total groundwater withdrawal in the United States represents only a fraction of the potential. Instead of being faced with the national problem of reducing our groundwater use, the problem is, instead, one of distributing the use so that overdevelopment of local areas can be eliminated or kept to a minimum."

**Hoof-and-mouth.** Here's a firsthand report on the hoof-and-mouth disease situation as seen by Senators Guy M. Gillette and Bourke B. Hickenlooper of Iowa, who made an airplane survey in Mexico: The "front" of the disease, once 249 miles from the U. S. border, has been pushed back more than 40 miles.

No new outbreaks have been reported since last October, though cattle are still being vaccinated. If the disease doesn't show up again after a few months, it will be regarded as virtually wiped out, and the control program will be relaxed. A million cattle have been slaughtered. Both senators believe the campaign has justified the expense of ending the threat to the American livestock industry.

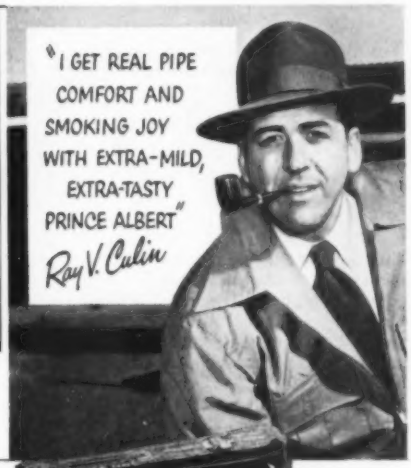
**Lobbyist.** When the congressional lobbying investigation gets under way, Republicans will try to turn the heat on William Boyle, chairman of the Democratic National Committee. Two instances will be cited: his "lobbying" for the so-called middle-income housing bill

[ *Turn to page 63*

# Judge Robbins' Hobby Hunt

**Judge Robbins visits two of the many hobbyists who find greater smoking joy in crimp cut Prince Albert—America's largest-selling smoking tobacco**

**FLYER**




**Prince Albert's choice, naturally mild tobacco is specially treated to insure against tongue bite. Yes! There's extra smoking joy in a pipeful of P.A.**

R. J. Reynolds Tobacco Co., Winston-Salem, N. C.

***MORE MEN SMOKE***

# PRINCE ALBERT

***THAN ANY OTHER TOBACCO***

**the National Joy Smoke**

**FISHERMAN**

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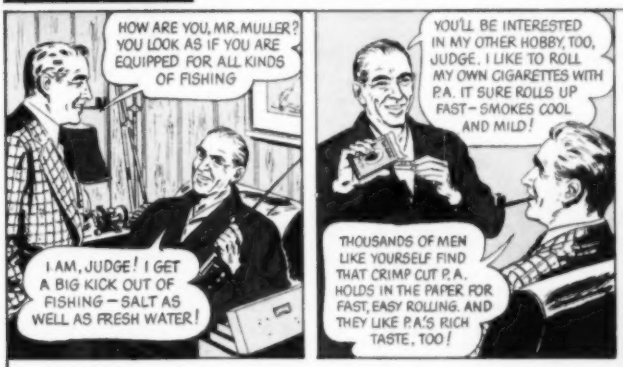
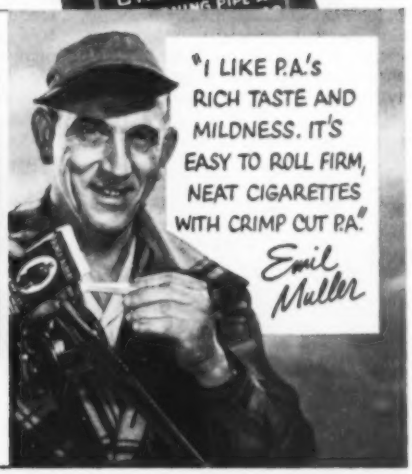
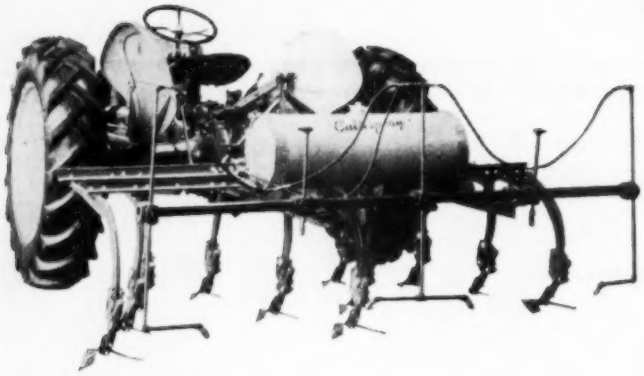



**Prince Albert's crimp cut tobacco makes it easy to shape neat, full-bodied cigarettes. And the humidor top keeps P.A.'s choice tobacco flavor-fresh.**

# What's new in farming®

***Tips you can use today***



**Cultispray.** Designed for attachment to any tractor, this sprayer is also especially built to be operated in combination with a cultivator, enabling you to do two jobs at once. For pasture and other field spraying, a different boom is available. Nozzles are adjustable to fit different row widths and crop heights. The aluminum tank holds 16 gallons of spray material.—*Dakota Steel Products Co., Sioux Falls, South Dakota.*

**He likes Ladino.** If you figure a ton of red clover-grass hay is worth $20, a ton of Ladino hay is worth $40, says R. F. Fuelleman of the University of Illinois. You can use Ladino for hay, pasture, seed, silage, or green manure in orchards. And it will often do very well in a spot where poor drainage has whipped alfalfa.

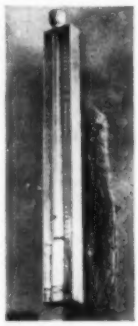
**Soybeans hurt clover?** Do you have trouble getting a clover stand in small grain, following soybeans? Lots of folks have blamed this on the beans. But Illinois Experiment Station workers say it's not the beans' fault. Check these four points, they suggest: Fertility may be low; the seed may be covered too deeply; the seed may not be covered deeply enough; or the seed may not have been too good in the first place. And don't forget to inoculate the bean seed.

**Drill grass for seed.** If you're raising grass seed, North Dakota workers urge you to drill the grass in rows. You'll get more seed, and it will be larger, plumper. Too, they report you will have more years of seed production from the stand.

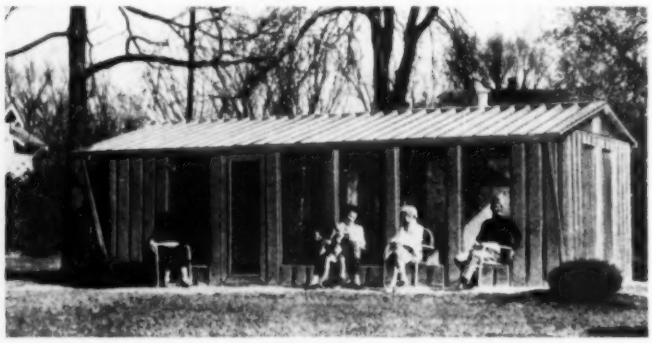
**Light traps for borers?** Will light traps give effective control of corn borers? No, say research men. This method of control has been under test since before the war, but no state or federal workers are yet recommending the lights for anything but experimental use in 1950 corn borer control. In the past, the killing grids have tended to clog up and go dead right at the time they are needed most—in the peak of the borer moth flights. Then, too, it is still undetermined how much area one light might protect, and how many eggs a moth may lay before being electrocuted. Unless you want to experiment yourself, wait for research.

**This is for fun.** This Lennox Holiday House is meant to be used as a children's back-yard playhouse, a summer living and entertainment room, or fishing or hunting lodge. It comes in various sizes and in panels ready for easy erection. Also available is a door which converts the building into a garage. The house is built of aluminum, needs no painting. No framework is necessary—the panels support themselves. A hooded, charcoal-burning barbecue grill fits inside; the front overhang forms a porch.—*Lennox Furnace Co., Marshalltown, Iowa.*

**How much rain?** Do you often wonder just exactly how good a drink your cornfields actually received? Fasten this rain gauge upright in any open place, and you'll find out. A graduated scale tells you the rainfall up to 6 inches without emptying. The gauge won't rust or corrode, and freezing will not break it.—*Victor Rain-Gage Co., Airport Branch, Wichita, Kansas.*

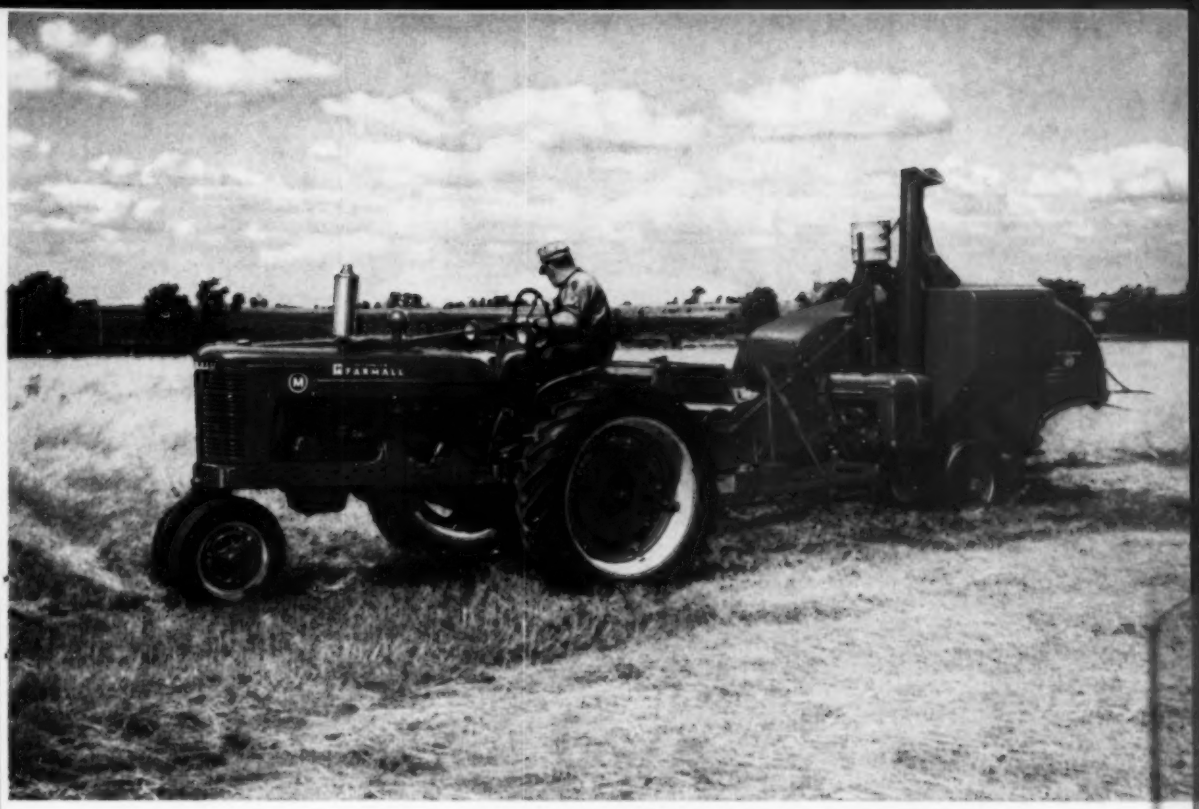


**Cultivator shield.** This new shield is designed to let all the fine dirt sift through to cover weeds, but hold back the clods which would damage the corn. Old cornstalks do not lodge in the shield, according to the manufacturer. Of all-welded construction, it can be quickly and easily mounted on any cultivator.—*Mississippi Engineering Co., Grand Mound, Iowa.* END



Holiday House

Cultivator shield




Harvesting with a Farmall M tractor and a McCormick No. 62 combine

# *When you get ALL the facts you'll choose a* FARMALL*

Farmalls are the largest-selling tractors in America today. Folks buy more Farmalls than any other make. You, too, will get a Farmall if you'll check ALL the facts . . . facts like these:

**Right size.** There are *five* Farmall tractors. One of them, or a combination of two or more, will give you ample, *economical* power for every job on your farm.

**Right implements.** For each of the five Farmalls there's a *complete line* of matched, quick-change McCormick implements . . . every machine you need for every crop you grow.

**Versatility.** Each Farmall gives you high crop clearance, pin-point turning, easy-to-adjust wheel tread, and hydraulic implement control.

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**Fuel economy.** Farmalls are unexcelled in the work they do per gallon of fuel. That's because they are right in weight, weight distribution, and wheel size for good traction . . . and right in engine design and in provisions for mounting and hitching implements.

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Check these and other Farmall facts before you buy! Ask your IH dealer for a free demonstration on your farm.

## You'll find all the facts in these FREE BOOKLETS

Send the coupon today for any or all of these free booklets. They'll let you go "window shopping" at home for your ideal tractor.

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Please send me free booklets on:

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- ☐ Farmall H, M, and MD (Diesel) —2-plow and 3-plow tractors
- ☐ I'd like a Farmall demonstration on my own farm.

I farm _____ crop acres.

My main crop is _____

Name _____

Post Office _____ State _____

My IH dealer is _____

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International Harvester Builds McCormick Farm Equipment and Farmall Tractors . . . Motor Trucks . . . Crawler Tractors and Power Units . . . Refrigerators and Freezers

*Registered Trade Mark

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**"I've been eating corn flakes** since I was knee-high to a grasshopper—but my first taste of Post Toasties gave me the surprise of my life!

"They're *different* corn flakes—fresher, crisper, really *better!*"

**"Post-Toasting"** *makes* the difference! This special process adds *extra* tenderness, *extra* flakiness, *extra* goodness!

What's more, the new Trip-L-Wrap "Keep Fresh" Package brings you Post Toasties *guaranteed fresh.* Get Post Toasties from your grocer today! They're one of the famous Post Cereals.

*A Product of General Foods*

Don't say 'Corn Flakes,' say

**Post Toasties**

—the BETTER Corn Flakes

**A Post Cereal GUARANTEED FRESH!**

Triple your money back if they're not as fresh as any corn flakes you ever ate.

1 Sealed Bag Inside

2 Sealed Carton In Between

3 Sealed Waxed Overwrap


Possum Trot Farm

# From a farmer's notebook

**By Leonard Hall**

The best thing about writing "From a Farmer's Notebook" is the number of new friends we have made. Now that we've rounded out a year of writing for *Successful Farming*, I'd like to tell about a few of them. Running a 320-acre cattle farm keeps a man plenty busy, but not too busy to make new friends with visiting farmers and others who drop in to see us at Possum Trot.

There was a day last winter when Mama and I were at dinner in the kitchen. It was one of those warm, sunny days which come now and then during our Ozark winters to make up for weeks of cold or rain and mud. The thermometer had climbed away up into the seventies. I saw a car pull up in front of the house and a farmer climb out; at least, he was dressed in jeans and a lumber jacket. He headed around to the kitchen door, and I rose to greet him.

"Mr. Hall," he said, with a friendly grin on his wind-burned face, "You don't know me, but I sure feel like I know you."

Now, we talk to a great lot of farmers, both individually and in groups, during the course of a year; and I'm one of those fellows with an atrocious memory. So I answered him, "Well, your face certainly is familiar, but somehow I just can't place your name."

His friendly grin grew even wider. "Seeing as we live away up in northern Wisconsin," he said, "I sort of doubt if you ever heard it. But we feel like we know you from your pieces in *Successful Farming*. We're on our way down to visit some of our folks in Arkansas on a little vacation, and I told Mom we'd just stop by Possum Trot and shake hands with that fellow who thinks about his farming the way we think about ours."

We had a good visit—the kind that warms a man's heart. They'd left home two days before with the thermometer at 20 below, so I bragged about our winters (and a month later wished I hadn't). We talked about the difference in our pasture seasons; their cattle feed in the barns nearly six months, while ours get their first hay along about Christmas and go out on small-grain pasture in March. Later they sent us a card on their way home, and we hope they stop when they come this way again.

Just one quotation from the many letters that come to Possum Trot, and we'll

get on with our farming—this one from away up in Michigan. . . .

". . . A great need in this land is to instill in our boys and girls the knowledge that farming is a useful, interesting, and remunerative way of life. It is the equal of all those other careers which, after all, only follow in the wake of the farming that must come first.

"I think you are doing this and showing, at the same time, that good farming need not exploit and impoverish the land but can actually build it up while, at the same time, making it yield a better return."

Well—here it is almost May again. And if there's a finer time of year, I don't know when it is. The dogwood scatters its blossoms like snow across the Ozark hills, and for the past week we've had a pair of blue geese resting down on the big pond.

The multiflora rose hedges we planted three years ago will make a cattle-tight fence by autumn, and now we're going ahead at the rate of 6,000 plants a year. In our wildlife plots we've planted 2,000 slips of bicolor lespedeza, which should mean plenty of quail feed.

New pasture seedings look good, and the oats is in and up. Most of it we'll mow and bale for hay, because we find that both cows and calves eat it with keen relish when fed with our legume hays. The 15 fall calves are weaned and out on pasture with the young steers, making good use of new grass.

I think there's a real lesson in nutrition here. We bring these small steers, weighing from 450 to 500 pounds, in from the back Ozark hills in September, rough them through the winter, and then push them along on good grass until the following September. By using brome and alfalfa pasture, we can put better than 600 pounds on these cattle in 12 months without grain and get them to market ahead of the grass-fat run in late September and October.

So much for what good grass will do for thin calves from the generally poor Ozark ranges. But our own fall calves out of the good grade cows on top-quality pasture, weaned in the spring and grained just enough so they don't lose their "milk fat," will come mighty near catching those "poor land" cattle in weight and go to market with a higher finish. This we attribute to the better condition of the cow at calving time and to the fact that our grass is rich in the food elements that build husky frames and a high quality of beef.

Finally, there are 25 spring calves which started arriving back in early February. These lads and lassies, all sired by our ECF Super Return, are out with their mammies kicking up their heels on a Balbo rye pasture.

The spring crop came with just one casualty—a heifer that picked a snowy night and the wildest corner of the farm for calving, so that we couldn't get her in for three days. By then the heifer had developed pneumonia, and we lost her but saved the calf and are raising it with another cow that happened to calve the same day.

Things like that hurt. Yet they happen, and we apply what philosophy we can, then go about planning to prevent their happening again. That, I guess, is just a part of farming. **END**

**IVY**...crisp leaves twine gaily over one of Monument's favorite bedspreads. Sturdy, like all Monument jacquards, IVY is washable and resistant to fading and stretching. Attractive shades...green, light blue, rose, dark blue. *Full-cut* twin and double sizes. Look for the label...ask for Monument bedspreads by name. Many other charming new designs for as little as 3.95 up.

MONUMENT Bedspreads
SINCE 1850

Guaranteed by Good Housekeeping

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# "TEST DRIVE" A '50 FORD!

"IT SHINES ON DRESS PARADE... IT PROVES ITS METTLE IN ACTION!"

"IT'S GOT 'LET'S GO' STARTS AND CAT'S PAW STOPS!"

SEE, HEAR AND FEEL THE DIFFERENCE

Before you buy any car, your Ford Dealer invites you to "Test Drive" the '50 Ford! "Test Drive" it for power . . . for comfort . . . for ease of handling. As for economy—the rapidly growing family of '50 Ford owners has found that this car is designed for top value in original purchase price, and top economy of operation and maintenance. And for looks—well, Ford has won the Fashion Academy's Gold Medal as "Fashion Car of the Year" again for 1950! See it—"Test Drive" it at your Ford Dealer's today!

THERE'S A Ford IN YOUR FUTURE WITH A FUTURE BUILT IN!

"IT TAKES THE MEDAL FOR BEAUTY AND IT'S BUILT TO LIVE OUTDOORS!"

# Ration planning at the Rohwers'

**Cover story**

When a truckload of protein and pig supplement rolls into the yard, it's a sure sign that George Rohwer, Grundy Center, Iowa, has another pig crop well on the way to market.

The Rohwers—George, his mother, and sister—have built a comfortable life for themselves on their 80-acre farm. George, at the left in the cover picture, decided a few years ago that hog raising was his best bet for a steady income. He now raises about 100 head of Yorkshire-Poland China crossbreds every year. All the feed needed for the hogs, except the proteins and supplements, is raised on the farm.

A good pasture rotation program helps George keep his hog-feeding costs low. Rye, alfalfa, and rape and oats are included in the soil-building crop rotation plan.

The Rohwers have practically rebuilt their farm buildings as well as their soil. The barn has been remodeled, and a new machine shed gave George a weather-proof shelter for his machinery. George and his neighbors solved the problem of buying high-priced machinery. They pooled their money and bought a baler, threshing machine, fertilizer spreader, binder, mower, and cultipacker. Future plans call for remodeling and modernizing of the hog house.

The attractive house in the background of the cover picture is one reason the Rohwers like to farm. It was built in 1934-35 after the old house burned. The new home is completely modern and as comfortable as any home can be.

Eighty acres has produced good living for the Rohwers, which proves again that in farming as in anything else, it's not how much you have, but what you do with it that counts.—*Dick Hanson.*

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On the farm—or anywhere . . .

WATCH GRIMY HANDS "COME CLEAN"

In 30 to 50 Seconds with Super-Speed LAVA SOAP

Swiftly routs out dirt ordinary wash-ups miss—yet it's amazingly gentle!

DOUBLE-ACTION DOES IT—AND NO ORDINARY SOAP HAS IT!

(1) In every inch of LAVA'S lather, 50,000 tiny scrubbers rout out ground-in dirt.

(2) Yet LAVA is amazingly gentle! LAVA contains the same soothing ingredient as in costly hand lotions.

EVERYONE IN THE FAMILY LIKES LAVA!

LAVA swiftly routs out grime, grease and machine oil . . . deep ground-in dirt from skin crevices *that ordinary soaps miss!* Animal and perspiration odors disappear like magic.

And Mom knows LAVA is gentle enough for her own or a toddler's tender skin. Great for cleaning children's hands, knees, elbows.

For thorough wash-ups in hot or cold, hard or soft water—buy LAVA today!

MOTHERS! IT SAVES TOWELS!

With a LAVA wash-up dirt's cleaned off *clean*—not *wiped* off on your nice, clean towels. So—less laundry work for you!

NOTHING CLEANS BETTER THAN—LAVA

The good gray bar with the creamy, snow-white lather

Sick and tired of scorchy pans?

BRILLO

gives TWICE the SHINE in HALF the TIME!

**New "Scorchy Pan" Tests** on crusty aluminums *prove* Brillo outshines all other types of cleansers tested! Shine-meters show Brillo gives *twice the shine in half the time!*

A square, metal-fiber Brillo *pad-with-soap* just whisks off crust! And the *jeweler's polish* in Brillo soap shines pans—fast! Brillo guarantees results. If Brillo fails to clean a utensil—you get a new one—*free!*

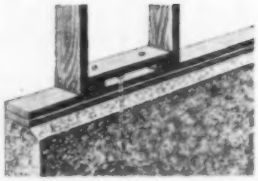
★ GREEN box—pads and cake soap
★ RED box—soap-filled pads

There's jeweler's polish in BRILLO

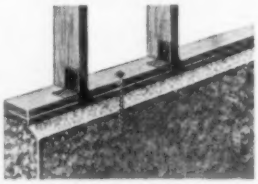

# Are your buildings safe to leave outdoors?

**Here's how to keep your farm structures in shape for the endless battle against the weather**

**By A. M. Goodman**



Wooden blocks fastened between the studs with lag screws provide strong, serviceable nailing surfaces



These patented metal anchors make a strong joint between the sill and studs. Sill must be anchored also

Wall braces and rafter ties add little to the cost but much to the strength of your service buildings

A building is no better than the weakest place in its frame. Every building is exposed to two powerful, destructive forces—wind and snow. To determine which of these building-wreckers is most important depends not only on the location of the building, but also on the shape of the roof. Just because heavy roof loads don't occur every day, or even every year, don't regard this question too lightly.

There's only one time to prepare for high wind and heavy snow, and that's before they occur. It's a problem quite different from dealing with a few holes in the roof covering. You can repair the holes after you discover them. But you'll have a hard time repairing a roof that has blown off into the hoglot.

In all but flat and very low pitch roofs, wind produces the greatest loads to which roofs are subjected. Usually we think of the wind as blowing only horizontally. But it will cause a downward pressure on the windward side of a sloping roof. On the opposite side of this roof, the same wind will create suction. This suction tends to lift the roof.

In spite of all the care you take, doors and windows sometimes are left open during windstorms. Let's suppose first that these open windows are on the side of the building away from the wind. Under these conditions, suction is created within the building. This inside suction tends to offset the upward effect of the outside suction on the same side of the roof. At the same time, however, this suction works in the same direction as the outside pressure on the windward side, increasing the roof load there.

Now, let's suppose that the open windows are on the side toward the wind. In this case, pressure is built up within the structure. This then tends to balance the

[ *Turn to page 83*

Drawing, left, shows how wind causes downward pressure on windward side of roof, suction on opposite side. Middle drawing shows pressure and suction when window is open on leeward side of building. Last drawing shows window open on windward side

# B.F. Goodrich

*The open center tread has Power-Curve cleats which are built extra high and tapered so they will slice into soil easily, bite deep.*

## CLEATS

## *outpull other leading brands*

***—give you more power, more traction and longer life.***

**LOOK AT THE TREAD.** The new B. F. Goodrich tractor tire has an open center tread that is based on a new principle of design. The husky, Power-Curve cleats are curved according to a special mathematical formula. Result: The distance between cleats is the same from the center of the tread out to the shoulders. This exclusive BFG feature gives you maximum cleaning combined with maximum drawbar-pull.

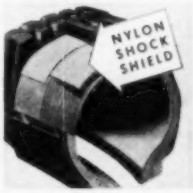
Power-Curve cleats are higher—and tapered for deeper bite. The curve prevents bending and "scrubbing" on hard surfaces . . . so you get greater wear. BFG tractor tires have always been a long-wear *favorite*. Now, Power-Curve gives you even longer wear. There's more rubber in the tread. Sidewalls are reinforced. *Many farmers will get as much as an extra year of wear!*

No wonder that in hundreds of tests in different parts of the country, B.F. Goodrich tractor tires outpulled and outwore other leading makes.

**COMPARE THE 3 LEADERS.** See for yourself! Examine the tread designs of the 3 leading tractor tires and watch all 3 perform. We think you'll select the B. F. Goodrich Power-Curve tread on every count—**traction, cleaning, long wear, smooth ride and economy.** *The B. F. Goodrich Company, Akron, Ohio.*

### Patented feature will save you on truck tires

All BFG truck tires with 8 or more plies are built with the exclusive patented *nylon shock shield*. Extra-strong nylon protects the cord body, absorbs the blows. You save through higher mileage, less danger of tread separation, greater bruise resistance and more recappable tires.

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FIRST IN RUBBER

**Play safe — keep your mouth and breath more** wholesome, sweeter, cleaner — by guarding against tooth decay and gum troubles both. Never risk halfway dental care. Always use doubly-effective Ipana care for healthier teeth, healthier gums—better all-around protection for your whole mouth.

# Keep your Whole Mouth Wholesome!

**Fight tooth decay and gum troubles with the one leading tooth paste specially designed to do both!***

To enjoy a healthier, more wholesome mouth, dentists warn, fight gum troubles as well as tooth decay.

With one famous tooth paste—*with Ipana and massage—you can guard your teeth and gums BOTH.

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Get this double protection—keep your whole mouth "Ipana Wholesome." You'll enjoy Ipana's wholesome flavor, too. It's so refreshing!

**"I use Ipana with confidence . . . it's made by Bristol-Myers,"**
*says Barbara Ann March of Roselle, N. J.*

Bristol-Myers, makers of Ipana Tooth Paste, have worked with leading dental authorities for many years on scientific studies of the teeth and gums. You can use Ipana with complete confidence that it provides effective care for teeth and gums both. It's another reliable Bristol-Myers product.

**IPANA**

**For healthier teeth, healthier gums**

**NEW!**
*Big economy size Ipana saves you up to 23¢*


# May
## *garden tips*

**In the vegetable garden.** Your last plantings of lettuce and radishes should go in late this month so they can mature before hot, dry weather sets in.

Start right after those weeds before they get well established. Use a sharp hoe to scrape the young weeds off at the ground surface and thus save yourself work later. Frequent shallow cultivations are the trick. Make these cultivations less than 1 inch deep, because deeper cultivation will cut vegetable roots, sometimes reducing yields more than the weeds would have.

Too often we allow lettuce, radishes, beets, and carrots to grow too thick. These extra plants in the row are robbers like weeds and should be considered as such. Thin these crops when they are 1 inch tall. Space carrots ½ inch apart now and thin them again 3 or 4 weeks later. These "finger" carrots, pulled out at thinning time, are excellent in salads. Thin beets to space 1 inch apart and lettuce to space 2 inches apart for the first thinning. Follow with a second thinning several weeks later.

Let me remind you that cabbage plants are due for a good side-dressing of complete fertilizer in May. Work in 4 level tablespoonfuls around each plant. When the sweet corn is 3 or 4 inches tall, side-dress it with commercial fertilizer, using 1 pound to each side of a 50-foot row. Give this same treatment to beans.

If you plant only one variety of sweet corn, don't forget to make succession plantings at 2-week intervals in order to spread the harvest season. You can make this spread even better by using 2 or 3 different maturing varieties in the same planting.

This is the month to start fighting insects. By starting early, you make a routine job out of what could be an endless task if the insect pests are allowed to build up. See that you have a supply of garden insecticides on hand. This should include DDT, rotenone, and nicotine sulfate. For vegetables, get the purified form of DDT; this form is comparatively safe on cucumbers and squash, which were frequently stunted with older forms of DDT.

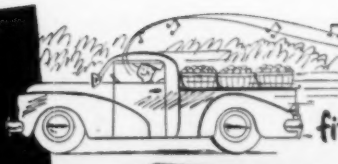
**Among the flowers.** First on the list this month is the moving of house plants outdoors; do it 10 days to 2 weeks after the frost-free date. Set them, pot and all, in the ground with the top of the pot at ground level. Give potted flowers a spot sheltered from the wind, but set them where they'll get sun for half the day. Foliage plants like ferns need partial shade; so move them to a sheltered porch, or set them into the ground on the north side of the house. If rains are infrequent, supply water as needed, particularly for those plants still in pots.

Keep all the faded flowers removed from the daffodils and tulips. Now is the time to plant some annuals between them

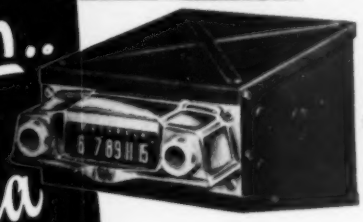
[ *Turn to page 111*

when the chores are done it's time for **fun**..

# Motorola style!



## NEW "400" auto radio fits all cars and trucks



Now! A genuine Motorola auto radio for your pickup truck or family car at a budget radio price! Yet, the new "400" delivers unfailing big power over roughest country roads—Golden Voice tone is richer than ever! And Motorola's extra selectivity brings faraway stations through strong local programs. Visit your dealer for a demonstration!

MODEL "400" $39.95

## Lots of power—Golden Voice Tone finest of all portables

For folks who want the very best in portable radios, it's Motorola's 6L1. Plays everywhere (often where most portables fail to play at all)—plays on house current or its own batteries. Sure, steady power. Full, rich tone. Handsome plastic beauty in green and gold. See . . . hear it, today!

MODEL 6L1 $39.95*

## NEW "Jewel Box" portable

How the gals love its smart looks—its big voice and full tone! Plays instantly on AC DC current or batteries. Built-in "loop" antenna. Ebony plastic with jade and gold.

MODEL 5J1 $29.95*

# Motorola Portables

# Auto Radios

## for living room tone as you ride

Motorola's Golden Voice "800" . . . the world's finest auto radio plays with new tonal beauty and smacking big power wherever you drive! Push button tuning. Special control heads to fit and match most cars. Attractive new styling. Give the "800" a look and listen at your dealer's!

MODEL "800" $79.95

see the new **Motorola Television**

*20 years of electronic achievements guarantee Motorola high quality*

Prices subject to change without notice
* Prices slightly higher in south and west

MOTOROLA INC., 4545 AUGUSTA BOULEVARD, CHICAGO 51, ILLINOIS

# Friend to Friend

## Expecting too much

Of the many plans to maintain farm prices or income, the majority would prevent government controls on production. Until everyone recognizes that farm price supports from the public treasury and controlled production are Siamese twins, we are not going to get out of the legislative muddle now plaguing agriculture. And control, when attempted, has never succeeded. Hence, mountainous surpluses in government hands.

Farmers were urged through every possible channel to produce their utmost for war and reconstruction. They deserve help through the period of readjustment. However, it must be clearly agricultural adjustment. Two years, in addition to warnings already given, would seem a reasonable period for such adjustment.

Use of vast food supplies for domestic and foreign relief could be justified for two more years. Shifts from a grain to a livestock economy in that time can absorb much of our feed grains if prices are kept in balance.

Perhaps we might be smart to subsidize automobile manufacturers, so more folks could buy new cars and thus keep more people employed. Or would the purchase of a car cut down a man's consumption of food? Farmers have much at stake in stabilization of manufacturing. Heavy unemployment while they are cutting back from the peak food production of war times would throw us into double trouble. If our farms are producing too much at current prices, prices must go down, volume of production shrink, or both.

## Who's a farmer?

Those who would frame farm legislation should be required to define the word "farmer" in the opening paragraph of every bill. As measured by the Census Bureau's definition, a farmer is anyone operating three acres or more of land; or if less than three acres, producing agricultural products valued at $250 per year or more. He can spend as much as 200 days a year at other than farm work, or occupy a full-time job, and still retain his title of farmer. However, any income from off the farm does not count as agricultural income.

Such a generous stretch of the imagination accounts for roughly 2 million of our total of 6 million farmers. In this way politicians and reformers figure an average income for farmers of less than $1,000 a year.

In all common sense, can such part-time operators be called farmers? If so, can their problems be solved by the same program needed by real farmers? Perhaps, like the doctor who was a specialist on fits, and who first dosed all patients with pepper so they would have fits, we could hope to make one remedy apply. It could not be called a scientific approach.

And another million men are so short of land, livestock, and equipment that they have an extremely low standard of living and contribute practically nothing to commercial supplies.

Of this one million families now on the land, many deserve special help. For them there is the Farmers Home Administration, a federal agency which has a long record of sound achievement in this sector of farming. Niggardly financial support from Congress has prevented the Administration from doing much more than prove its soundness. However, fat appropriations have been poured by Congress upon many farmers who could well take care of themselves.

With rapid increase of farm productivity, there must be discovered ways for unnecessary farmers to make a living in other work where they are needed by society. Why not add to the responsibility of the Farmers Home Administration the task of helping some marginal farmers become something besides farmers, provided that way seemed better than lending them cash to become better farmers? It's reasonable to believe many would seize such an opportunity. However, the number leaving the land annually would not upset employment.

And of the remaining three million farmers, not more than two and one-half million will be needed by society under modern conditions of farming except in great emergencies. When the going price for a plumber in the open country is $25 a day, and 80 percent of farm homes do not yet have plumbing, might it not be wise to train a few farmers to be plumbers? Or would it be smarter to ask the public treasury to subsidize every so-called farmer to the end that he could eke out a poor living from the soil?

Most important to a reduction in the number of farmers must be a high level of business activity with full employment. Given such conditions, men leave the land of their own accord. America needs so much besides food and fiber, it is nothing short of folly to pass any kind of law to encourage men to enter farming, or remain in it through pure subsidy or at a low level of existence.

Let's say a farmer is a man who makes the major part of his income from the land which he operates with the help of his family and perhaps a full-time hired man. This is the Midwest pattern, but some modification would be needed in different types of farming. Such a family unit is the foundation of every good community.

Bear in mind, half our farmers produce 90 percent of our agricultural products. The big-shot farmer, and the chap who lives on an acreage because he prefers it to a house in town, need not cause economic concern as far as farming goes.

Society has a right to demand a definition of the word farmer. It could simplify our problems, if not actually solve many of them. Fortunately, that is the idea towards which the United States Census Bureau is working in the 1950 Census of Agriculture. Such clarification will do much to clear up the question of just who is a farmer.

Kirk Fox

**THIS MONTH,** census-takers are calling on homes all over America. Suppose one of them called on us and asked some of the same questions she asks you. Here is what our answers would be:

# IF THE CENSUS-TAKER CALLED TODAY, THIS IS WHAT WE'D TELL HER

**QUESTION:** *Your name, please?*
**ANSWER :** Standard Oil Company (Indiana). We speak also for our subsidiary companies.

**QUESTION:** *Age?*
**ANSWER :** We'll be 61 years old this coming June.

**QUESTION:** *Occupation?*
**ANSWER :** We produce crude oil, transport it, refine it into more than 2,000 useful products and distribute these products for sale. Doing each of these things ourselves, as an integrated company, helps us make better products more economically and make them more readily available.

**QUESTION:** *How many in your immediate family?*
**ANSWER :** First of all, 46,700 employees. Stan Zatorski is one—he works at our refinery in Whiting, Indiana. Our employees averaged $4,600 in wages and benefits last year, and each of them has behind him an average of $30,100 in tools and equipment to help him earn his good living.

We have more than 2,300 retired employees, like Lee Swanson of Sidney, Montana, each of whom receives monthly income checks under our contributory retirement plan.

Then we have 96,800 owners, like Mrs. Klare Knudson, a housewife of Minneapolis. In 1949 our stockholders owned an average of 158 shares, on which dividends paid had a value of $425. No one man or woman owns as much as 1% of our stock, and no institutional owner has as much as 5%.

**QUESTION:** *Any other dependents?*
**ANSWER :** Well, there are a good many other people who depend on us to some extent—and at the same time, we depend on them. There are many thousands of independent businessmen like Sam Reeve of Birmingham, Michigan, who earn their living by selling our products. There are millions of customers like Joseph Carawab of Chicago who use our products.

And there are a great many people who benefit from the work of the many schools, colleges, hospitals, charities, insurance companies and other institutions that get part of their income from our stock dividends.

**QUESTION:** *How do your spend your income?*
**ANSWER :** The greater part of it—58.7 cents out of every dollar we took in last year—was our cost for materials, transportation and wear and tear. Another 16.4 cents went for wages, salaries and employee benefits. 2.9 cents was paid to our owners as dividends and 4.8 cents was retained in the business. These items add up to 82.8 cents.

The remaining 17.2 cents out of every dollar we took in last year went to pay taxes, including our own taxes and those we collect from our customers for national, state and local governments.

**STANDARD OIL COMPANY** (INDIANA)

**COSTUME JEWELRY FOR YOUR TABLES**

When Spring is blowing warm and wind is in the pines, it's party time for settings bright and right. So let it be *Heather* to add sparkle to your entertaining. You'll be proud of this handmade "Master-Etching". It's one of Fostoria's finest, where every frosty flower brings life and luster to clearest crystal. So for a cherished possession choose *Heather*. You'll find this Fostoria gift and many others in open stock at the better stores everywhere, because Fostoria has a quality everyone knows.

FOSTORIA

FOSTORIA GLASS COMPANY • • • MOUNDSVILLE • WEST VIRGINIA


# *all* around *the* house®

**Here are tips to help you save yourself some time, steps, and work**

● A wastebasket is right by the kitchen sink where I need it, thanks to this easy idea. Without any complicated carpentry work, I attached an oval metal basket to the door of the cupboard beneath the sink. I punched two holes about 5 inches apart, just below the rolled rim. Then, holding the basket against the door, I marked through the holes and inserted two cup hooks on the dots made. With the hooks opened a little so that the basket can lift on and off easily, it was ready for handy use.—*Mrs. A. H., Nebraska.*

● **To keep the knobs on cupboards and dresser drawers from working loose, use washers of fine sandpaper. Cut the washer to fit knob, make a hole in the middle of the washer, and slip it over the bolt or screw between knob and drawer. Put the abrasive side next to drawer. Then, when the nut is tightened, the knob will not work loose.—*Miss G. M., Minnesota.***

● My children have as much fun picking up their "clutter" as they had scattering it in the first place. Equipped with a wooden peach lug (any small wooden box will do) to which we've fastened a broom handle, they trot around the house picking up toys, paper, and what-have-you, feeling important and busy.—*Mrs. S. H., Illinois.*

● **When making an apron, sew extra padding at each lower corner. Make the pad-**

**ding as large as your favorite pot holders. This way, your "pot holders" are right at your finger tips, ready the minute you need them.—*Mrs. G. A., South Dakota.***

● A discarded shelf from your refrigerator makes a handy kitchen tray for holding hot pans, cake tins, cooling pies. You'll find countless other handy uses for it. —*Mrs. A. T., Minnesota.*

● **Instead of planting our window boxes each summer season, we simply set potted flowers into them. These can be easily shifted when they stop blooming and other blossoming plants set into their places. We enjoy the continual color this gives our home.—*Mrs. D. B., Wisconsin.***

● I find the pilot light in my oven is useful for a number of things. I set my bread in the oven to rise and the pilot keeps it just the right temperature, even in the coldest weather. When crackers or potato chips become limp, I put them into the oven overnight and the next day they are peppy and fresh for serving. I also dry corn, apples, peaches, pears, and apricots in the oven by using only the pilot light. —*Mrs. E. M., Nebraska.*

● **Put three or four marbles in the bottom half of the double boiler before putting it on the fire. When the water gets low, they will bounce about noisily, warning you that it needs refilling. This idea has lengthened the life of my double boiler, to say nothing of saving my temper, time, and food.—*Mrs. W. J., Minnesota.***

● I save extra housework steps with my large-pocket cleaning apron. When I find a small article out of place or needing repair, I tuck it into the right-hand pocket. Odd papers, threads, and scraps to be thrown away are put into the left pocket for emptying when I pass a handy wastebasket. The misplaced items are restored to their proper places when I reach them during cleaning.—*Mrs. D. T., Illinois.*

● **To cut angel cake without having it crumble, use a silk thread stretched**

**tautly between your hands. (See photograph above.)—*Mrs. G. G., Iowa.***

● Time was when my husband came in from the day's work with his trouser cuffs full of seeds and bits of straw and dirt which clung to the carpet as he walked. I solved this extra cleaning problem by stitching all work-clothes cuffs with the sewing machine.—*Mrs. E. K., Missouri.*

● **Make a handy barber-pole container for used razor blades by enameling a condensed milk can with red and white candy stripes. Cut a slot in one end large enough for blades to slip through. Keep this on the bathroom shelf with the shaving materials. —*Mrs. A. C., Indiana.***

● Slipping seldom-used dishes into paper or plastic bags, when you store them, will protect them from gathering dust.—*Mrs. M. B., Pennsylvania.*

Successful Farming will pay $5 for each helpful suggestion published. We cannot return unused suggestions.—Editors

are your liability limits high enough?
—by don herold

People sue for more these days. Being sorry won't help you. You'll need money and lots of it.

This goes for automobile injuries and deaths and damages, and for other accidents for which you may find yourself liable.

So cover yourself PLENTY!

You'll be surprised how much more protection you can get for so few more dollars.

Talk it over with an America Fore agent. He will tell you the cost of liability insurance with limits sufficient to guard you against loss.

For the name of a nearby America Fore agent call Western Union by number and ask for Operator 25.

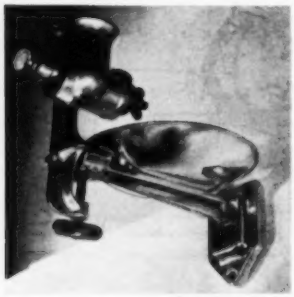
THESE FIVE COMPANIES COMPOSE THE AMERICA FORE INSURANCE GROUP
CONTINENTAL • FIDELITY-PHENIX • NIAGARA • AMERICAN EAGLE
FIDELITY AND CASUALTY COMPANY OF NEW YORK
BERNARD M. CULVER, Chairman • FRANK A. CHRISTENSEN, President

America Fore
• INSURANCE GROUP •

LOOK FOR THIS SEAL ON YOUR POLICIES

# What's new in homemaking

**Top news** is this food chopper bracket which does not mar cabinets and table surfaces. Fasten the brack-

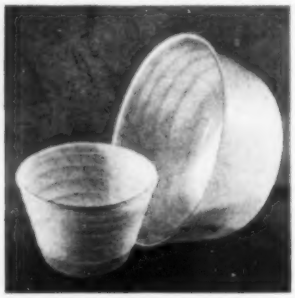


et—with removable aluminum plate attached—to a door, window, or cabinet frame at desired height. Food chopper clamps to plate holder arm. The plate is to hold waxed paper or a dish for catching chopped food. Available in department, hardware stores, or $2.95, plus postage, from *Anason Co., 840 Main Street, Paterson, New Jersey.*

**Damp Champ** is the plastic ironing bag which eliminates hand sprinkling. Put dried clothes in the bag

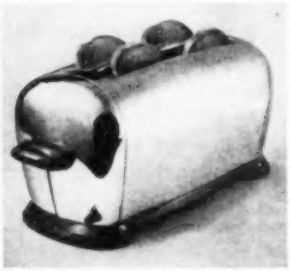
without rolling or folding. Pour one or more cupfuls of warm water on the clothes; twist or fold the top of the bag, and put away until ironing time. Your clothes will be evenly and uniformly dampened. The bag measures 18x36 inches. Postpaid, $1.50, from *Humphrey Callander, Inc., 618 W. Adams Street, Clinton, Illinois.*

**Flexible mixing bowls** of translucent white plastic won't chip, break, or crack. You can press in the sides of the bowl to form a waste-free pouring spout. The polyethylene plastic will return to its original shape. They may be used as replacement bowls for electric mixers, for mixing and no-waste pouring of bat-



ters, as salad bowls, or for refrigerator storage. Small bowl, 59 cents; large bowl, $1.29. Available in department, hardware, and electrical stores, or direct, postpaid, *Plastray Corp., 823 Fisher Building, Detroit 2, Michigan.*

**Plenty of toast.** This 4-slice toaster with a silent clock and thermostat control raises the toast gradually during the toasting cycle and browns it evenly. The control lengthens the toasting time when the toaster is cold, shortens it when hot. It has a

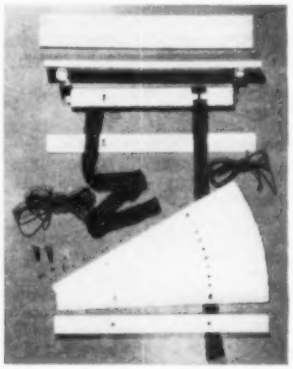


release for toast inspection, and a removable bottom plate for easy cleaning. The toaster is available in hardware, department, retail stores, $29.95. *The Toastswell Co., 620 Tower Grove Avenue, St. Louis 10, Missouri.*

**A child's tray** that clamps to your dining-room table with a twist of a knob allows your child to eat with

you. It keeps his hands away from hot dishes, liquids; prevents accidents, soiled linens. Of durable aluminum, it has rubber pads to protect linens and table finishes. The tray is 9x13 inches, can be found at children's stores, or $4.95, postpaid, from *Kite and Koch Co., Department F, 1133 Mission Street, S. Pasadena, California.*

**Venetian blinds** in all sizes—make them to fit your needs. This kit has step-by-step instructions for mak-



ing, and includes everything you need except a hammer and screwdriver. Kits are available for windows measuring 21 to 66 inches in width, 54 to 84 inches in length. The 27x54-inch kit is $3.88. For price list and how to measure, write *Flexolite Mfg. and Supply Co., 266 Wilson Avenue, Brooklyn 21, New York.* [ *Turn to page 146*

**Price is low—dependability is high in this . . .**

# New, Improved G-E Economy Model With De Luxe Features!

**Invest now in a General Electric Space Maker Refrigerator ...and enjoy it year after year after year!!**

**This new 8-cu-ft** 1950 General Electric *Space Maker* Refrigerator is the most dependable, most *economical* refrigerator money can buy.

First of all, its famous refrigerating system is the most efficient ever made. *More than 2,200,000 have been in use 10 years or longer!* Many are still performing faithfully after 15 or 20 years.

**First with more refrigerated space**

This dependable, low-priced 1950 General Electric Space Maker also gives you one-third more refrigerated food storage than in old-style models occupying the same floor space!

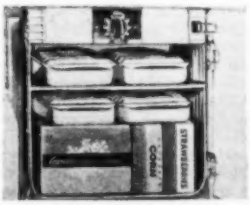
**De luxe construction! De luxe features!**

The cabinet is one-piece, welded sheet steel! Thick Fiberglas insulation! Trigger-action latch, and other de luxe features such as are shown below.

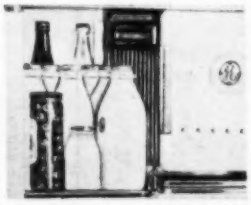
See this *best* refrigerator value in years, today, at your General Electric dealer's. Look for his name in the classified telephone directory under Refrigerators. General Electric Company, Bridgeport 2, Connecticut.

DEPENDABILITY
MORE THAN 2,200,000 G-E REFRIGERATORS IN SERVICE 10 YEARS OR LONGER!

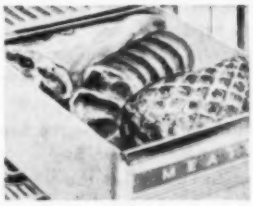
Model NB 8 G illustrated.



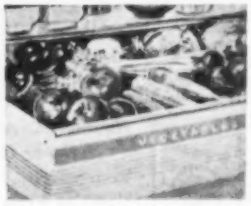

**Stores 24 pounds of frozen foods!** Now you can have more of those delicious frozen foods on tap . . . and keep them for as long as two or three weeks.



**Holds 12 square, quart-size bottles!** No more fumbling and fussing about where you're going to set those bottles! Space for those *extra-tall* ones, too!



**Large roasts are no problem** in this new General Electric meat drawer. It's deep enough for fowl and standing roasts! Keeps meat in best condition.



**Wide, deep vegetable drawer!** Designed for fresh fruits and vegetables that require moisture to keep them fresh day after day! *Plenty* of room, too!

***You can put your confidence in***

**GENERAL ELECTRIC**

If your car feels like *this*... it's time for
MARFAK Chassis Lubrication

THAT CUSHIONY FEELING LASTS LONGER WITH MARFAK!

You can really feel the difference in easier, smoother handling after your car or truck has been given a Marfak lubrication job at your nearby Texaco Service Station.

The extra "cushiony" feeling tells you that tough, long-lasting Marfak lubricant is cushioning the vital bearings against wear.

**Lasts Longer — Seals Out Dirt**

Marfak sticks to bearings longer. Won't wash out, jar out, drip off or cake up. It provides a "collar" around the open edges of bearings, effectively sealing out dirt and grit that can work their way into, and ruin, bearings. That's important on the kind of roads you use, where dust and dirt are constantly being thrown against bearings under your car or truck.

Drive into your nearby Texaco Service Station and get Marfak lubrication service. When you drive out, you'll notice how much easier your car or truck rides. You've got real lubrication protection.

**Now Get Custom-Made Havoline — the Best Motor Oil Your Money Can Buy**

Your nearby Texaco Dealer has the NEW Custom-Made Havoline Motor Oil — *custom-made for best protection, best performance.* It fights rust, acids, wear and corrosion . . . keeps your engine clean. Insures top performance, easier starting, more power, longer engine life, lower gas consumption and lower upkeep costs.

Visit your Texaco Dealer. You'll find him *the best friend your car ever had.*

**THE TEXAS COMPANY**
TEXACO DEALERS IN ALL 48 STATES

TEXACO

Texaco Products are also distributed in Canada


# News

### Sweet corn profitable, and allotment-free

Walter Zimmerman, whose 240-acre farm is three miles south of Eureka, Illinois, has found sweet corn to be a profitable crop. For eight years he has grown it for the cannery at Eureka. Last year he raised 10 acres which produced a gross profit of $130 per acre, a net profit of $100 an acre, and in addition a tremendous amount of feed from the stalks.

A further advantage is that sweet corn sold as market or cannery corn does not count against your corn allotment. But if you feed the stalks, check with your local P.M.A.

Mr. Zimmerman follows a rotation of corn, corn, oats, and clover. In October he plowed the 10 acres for sweet corn to a depth of 7 inches. The land had been in field corn that year. The ground was disced four times and harrowed three times to make a fine seedbed. No fertilizer was used.

The Golden Bantam seed was tested for germination, with a result of 97 percent. It was treated with a mercury dust and planted on May 17. It was cultivated twice, the last time on June 29, with a 2-row cultivator.

The entire field was picked by hand on August 12. It produced 50 tons for the field, or 5 tons per acre, of which 97 percent was salable.

The growing and harvesting cost approximately $300, or $30 per acre. The crop brought $130 an acre, leaving $100 per acre as an altogether satisfactory net profit from the crop.—*Harry Spooner.*

### Plant corn to dodge the borer

Here's a tip that may help you wage a successful fight against corn borers. Instead of starting corn planting on the traditional May 10, consider waiting until May 21—if the growing season of your hybrid allows. You may be able to avoid considerable borer infestation by planting at the later date. If borer damage in your area is severe, this may more than offset the effect of late planting.

The Purdue Agricultural Experiment Station has made a study of how the date of planting influences borer infestation. Corn planted on April 10 had 89 percent of the stalks infested to some degree; corn planted May 10 was 83-percent infested; corn planted May 21, 53-percent infested; corn planted May 31, 33-percent infested; and corn planted June 10, 56-percent infested. The yield from corn planted on May 21 was significantly greater than the yields from corn planted on the other dates.—*Don Helt.*

### Watch soybean germination

Beware of buying soybean seed which has been held in storage for too long a period. The Illinois Agricultural Experiment Station found the germination of some varieties of soybean seed dropped to zero after three years of storage.

If storage conditions were poor, or the moisture content of the beans at storage time was high—14 percent or more—germination of seed *may be poor after only six months of storage.*—*Don Helt.*

*Rocket! Rocket! ROCKET!* You touch your toe to the pedal—and the "Rocket" Engine "88" Oldsmobile takes off! "Rocket" response—ready and eager! "Rocket" teamwork with Whirlaway Hydra-Matic*—superbly smooth! "Rocket" Engine power—strong and sure down the wide open straightaway! This is the thrill that *you ought to try*—before you buy *any* new car. See your Oldsmobile dealer. Make a date with a "Rocket 8" demonstrator. And remember—the Oldsmobile "88" comes at a reduced price for 1950!

*Whirlaway Hydra-Matic Drive, at reduced price, now optional on all Oldsmobile models.

A GENERAL MOTORS VALUE

*Rocket Ahead with* OLDSMOBILE

# Railroads make Good Neighbors

It's true, of course, that America's railroads literally border hundreds of thousands of American farms, but what really makes farmers and railroads neighbors is their dependence on each other. Farmers supply railroads with a large part of their freight business – and railroads, in turn, serve the farmers – assembling in major crop areas the great fleets of cars required for the dependable movement of the huge production of today's progressive agriculture.

To speed and improve the handling of freight of all kinds, the railroads in the last five years alone have spent more than four billion dollars for modern locomotives, new freight cars, heavier rail and new signal and yard facilities. All these mean better service to all railroad customers, and especially to farmers.

In providing the vital transportation the nation needs, the railroads build and maintain their all-steel highways entirely at their own expense. What's more, on all their property they pay taxes which benefit every community they serve. In thus sharing materially in the cost of schools, courts and other local government services in rural areas, as well as in towns and cities, the railroads are indeed good citizens and good neighbors.

ASSOCIATION OF AMERICAN RAILROADS
WASHINGTON 6, D. C.

Listen to THE RAILROAD HOUR every Monday evening on NBC


# Signs point the way

**By Harold Severson**

Ever try to find your way to Uncle Henry's farm for the first time in a "signless" locality? Remember how you found yourself in a bewildering labyrinth of winding roads, unmarked lanes, and crossroads that sent you to farm homes in search of directions? It slowed up your trip because sometimes the directions were almost as difficult to understand as a lecture in Sanskrit.

Over in Monroe County, Wisconsin, members of the Lucky Leaf 4-H Club have started a project certain to win the thanks of strangers in their neighborhood. Under the direction of their leader, Mrs. Erwin Knoll, they're busily engaged in making signs. These are tacked to fence posts, marking the way to different neighborhoods.

There's a great need for those signs. The Lucky Leaf members live in a valley where roads wind around hills, down valleys, and branch off in unexpected places. Once a stranger leaves the beaten paths and begins adventuring in unknown areas, he is a remarkable person if he doesn't find it necessary to make two or three stops before coming to the right place. The signs will eliminate that nuisance and save strangers' time.

They are large enough to be read with ease even at a distance of 20 or 30 feet. They are nailed to posts so they can be seen at once, and are painted on rainproof material so the letters will not fade and run after the first soaking rain.

As a further touch, the signs have the names of each family living in a locality. For example, if there are three families in the "Anderson Coulee" neighborhood, the name of each family is painted on a separate board and attached to the "Anderson Coulee" sign.

Drive out to the Knoll home and ask for directions this summer. No longer will you be given directions that sound like this: "Drive a quarter mile to the first crossroad, turn left, and follow a winding road about two miles until you get to a crossroad where a big oak was split in half by lightning." Instead, you'll be directed to signs which will lead you to the right place in a jiffy. **END**

# "IT'S NEW, TOO!"

***"This farm's changed. Tractors roll where horses used to poke along. Machines are handling the heavy work. This telephone's new to me, too. It's a fine farm tool."***

The number of rural Bell telephones has more than doubled in ten years and more are going in all the time.

Service has improved, too. It's clearer, faster, and more dependable.

Nine out of ten Bell telephones in rural areas are the newer lift-the-receiver type. The number of parties on party lines is being reduced, and nine out of ten have improved ringing, so that each party hears fewer rings. These advances are being extended as fast as possible.

Each day is a big and busy day of further growth and new development for the rural telephone.

**BELL TELEPHONE SYSTEM**

With an **Amana** HOME FREEZER

Amana 18 cu. ft. upright holds 630 lbs. of food.

**Quantities of delicious, fresh-frozen meat! Bushels of garden-ripe fruits and vegetables! Large amounts of pre-cooked meals for extra hands! THOSE ARE JUST A FEW OF THE ADVANTAGES AN AMANA FREEZER GIVES YOU. You'll have better balanced diets all year—eliminate countless shopping trips—save cooking time!**

**Amana is made by pioneers in the Home Freezer field. See your local Amana dealer . . . he has the size you need and the model (chest or upright) you prefer . . . Amana freezers are available from 6 to 30 cu. ft. Demand Amana!**

Amana 12 cu. ft. chest . . . holds 420 lbs. of food.

**Write for illustrated book . . . "Complete Guide to Home Freezing!"**

*Send 25c to cover mailing, handling.*

**Amana**

AMANA REFRIGERATION, INC.
AMANA 12, IOWA

**Keep your family keepsakes alive by sending them along with graduation, birthday, and wedding gifts**

**By Julia Wolfe**

Here it is—both graduation time and the June-bride season again! But this year I'll welcome it as a chance to give away more of my long-prized keepsakes. And I'm sure they'll be as gladly received this year as were last year's gifts.

It all came about quite by chance. Year after year I struggled through the stores to find just the right thing for my children, nieces, and nephews. Then last year I was bedfast and unable to buy gifts. It would have to be gifts in the form of money, I decided.

Then one day I hit on the idea of sending along one of my treasured family keepsakes with each check. The younger members of my family were so appreciative that I decided to continue giving away keepsakes until I had no more to give.

Last year Susie got her great-grandmother's earrings, and was she proud to say when people admired them, "They belonged to my great-grandmother."

Janie got Aunt Frannie's cameo and has planned a whole costume to highlight it. Next, I wanted to send son Bill's fiancée a check to cover the cost of her transportation to visit us. Having never seen the girl, I didn't want to send just the check—so I looked in my treasure drawer for an idea. I found one of Bill's first bootees, and sent it along with a jingle about "Seven-league Boots."

When Janie got married last summer, I sent her a check to cover the cost of her table linen and silverware. Along with the check went my collection of after-dinner coffee spoons—the ones my husband and I had collected along the way on our honeymoon.

Even younger family members appreciate keepsakes. I knew that my teen-age granddaughter wanted some stuffed toys for her bed. I dug into an old trunk in the attic and found one of her mother's dolls—the kind with a china head and jointed kid body. I had a new wig made for the doll and dressed her in the fashion of the day, complete with pantaloons and petticoats, her gown harmonizing with the color scheme of Nancy's room. It was a birthday gift that was fun for both of us.

I've found that keepsake giving can go both ways, too. Daughter Susie had received, as a child, a set of Haviland china doll dishes. Imagine my surprise to find a cup and saucer from her set under the tree Christmas morning. The cup and saucer were welcome additions to my collection of demitasse cups.

My friends, too, have found that unusual keepsakes are welcomed by family members. This year at commencement time, I know a college senior who will receive a quaint daguerreotype of her grandmother at 22, in hoop skirts and Paisley shawl. A note tucked inside the frame will enclose $22 "from the girl in the picture."

For a gift to be deposited in a new baby's bank, a proud grandfather I know sent a check that stuck out of the chimney of a little red bank. The bank was the one into which the baby's father had dropped the first penny he had earned.

My friends, relatives, and I all agree that in this way we are keeping our keepsakes alive and making them a part of the family. By passing them around this way, all members of the family can enjoy them. And the checks, so presented, never seem cold or impersonal. **END**

# "Take it Easy" Breakfasts

**Quickest, cheerfulest** treat of the morning is Kellogg's Corn Flakes with bananas. And a splendid *main dish!*... those sweet flakes of nourishing corn give whole-kernel richness in iron, thiamine and niacin.

**"Wake up, teen-agers!"** says Betty Betz, columnist to young Americans, "Skipping breakfast can sink you. Know a cereal dish that really can send you? Kellogg's Corn Flakes! It's swell for the morning push!"

**Hamburger hint,** right from Mrs. Regina Frisbie—Home Economics Head at Kellogg's—and mother of 3 hamburger fans. "Crush 2 cups Kellogg's Corn Flakes. Combine with 1 lb. ground beef, ½ cup milk, 1½ tsp. salt, ⅛ tsp. pepper. Shape into 6 patties and panbroil. The Corn Flakes give flavor-lift . . . help the meat provide more nourishing servings!"

**Handy? Yes, indeedy!** Your Kellogg's Corn Flakes now come in a Handi-Pak . . . 8 generous packages in one cellophane wrap!

**Travelers feel at home!** J. T. Mullin, dining car steward of the famous Wolverine, crack N. Y. Central train, says, "I see them all, from big shots to little tots, eating their Kellogg's Corn Flakes, which taste just like home. Even the fussiest can't complain, because Kellogg's come so good and fresh!"

**Without coaxing or tears!** "Getting little Manon and Chip to eat a good breakfast is a game, now they can pick from Kellogg's VARIETY," says Mrs. W. L. Brenner of Jacksonville, Fla. Yes, 10 choices, 7 favorites in VARIETY. Whichever you choose, you just can't lose!

**"Loveliest silverware** pattern I've ever seen is Kellogg's *'Signature'*—I'm very, very pleased!" writes Mrs. Douglas O. Whitaker of Montebello, Cal. Yes, you receive 4 lovely silverplated teaspoons—each with *your* script initial—for only 75¢ with the white-star end from Kellogg's VARIETY. Package tells you how to start your set.

**Drop us a line about Kellogg cereals . . . write to Barbara B. Brooks at Kellogg's, Box 303, Battle Creek, Mich.**

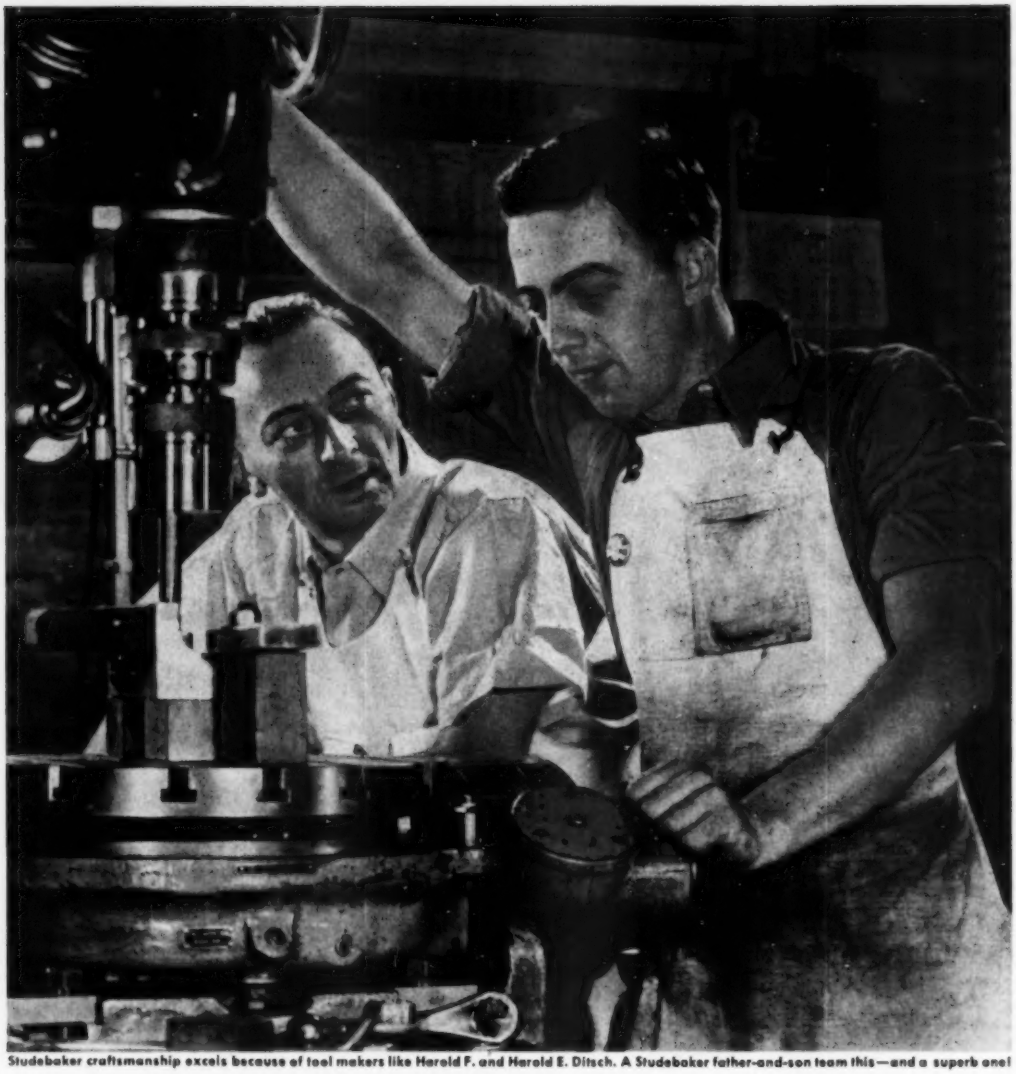
# OH, WHAT A BEAUTIFUL BREAKFAST...

**Kellogg's Corn Flakes for grand flavor and main dish nourishment.**

Now Mom's changed to VARIETY
I'm Johnny on the spot!
It's swell to pick from favorites
And boy! I eat a lot!

*10-box choice, 7 cereal favorites*

Kellogg's Mother Knows Best!



Studebaker craftsmanship excels because of tool makers like Harold F. and Harold E. Ditsch. A Studebaker father-and-son team this—and a superb one!

# This is the painstaking kind of craftsmanship that puts long life into every Studebaker

SHOP around and price used cars—that's when you really find out about a Studebaker's durability.

Used Studebakers sell for top money as a rule.

Discriminating used car buyers often pay a little extra to get the extra stamina of a Studebaker's fine materials and craftsmanship.

This craftsmanship is one reason the streets and highways are growing more and more alive with refreshingly distinctive new Studebakers.

People are becoming increasingly thrift-minded about their motoring.

They look upon the modernly designed new Studebaker as a real opportunity to cut their driving costs.

They see proof everywhere that Studebakers are stand-out cars at standing up—enduringly built by America's top automotive craftsmen.

Father-and-son teams, and thousands of solid citizens who have never worked anywhere else, painstakingly implant long life and low operating cost into every Studebaker.

**STUDEBAKER**

***Builder of trustworthy cars and trucks***

Studebaker Corporation, South Bend 27, Indiana, U. S. A.

# An open letter to American farmers

**To farmers, government is now more important than the weather and the market. What it does in the next two years can make you or break you for life. It is your privilege to guide your government, your solemn duty to know *which way* to guide it. The article below restates our problems, explains some of the solutions, tried and untried. Succeeding articles will explore specific plans, as they are offered.—*The Editors***

Agriculture is in trouble.

That's hardly news to you. Hogs are down. Wheat is down. Prices we pay are still up. Thousands of men are scurrying around our farms, telling us we can't plant this and, as a matter of fact, we can't plant that, either. In the back rooms, other men are busily—a little hungrily—drawing up more and more rules which they plan we should obey. Farm leaders are throwing lusty verbal punches at one another. And city folks are being told, over and over, that all farmers are greedy, wealthy parasites.

Those troubles are enough to worry us—and worry us plenty. But don't let anyone wave them so close in front of your eyes that you lose sight of the really tough problem, the basic decision we must make.

Here is what we must decide, now: Do we want some government help—and control—only long enough to adjust our production from what was needed during the war to what is needed now? Or do we want to admit all American farming has to go on relief from here on out, permanently?

We've been pretty smug about our ability as farmers. We have a right to be. We've bucked drouths, bugs, low prices, and scales that didn't always exactly balance. Sometimes we lost. But, enough times, we won. Enough times to buy more bathrooms, more tractors, more automobiles, more college educations than any other group of farmers since time began.

Are we, then, ready to put more faith in government than we put in ourselves? We've always bragged a bit that we were rugged individualists. Are we going to be the first group in the United States to admit that maybe a few politicians could run our business better than we can? Are we ready to turn our farms over to government control?

None of us wants to do that, of course. But we *do* have problems. Serious ones. They aren't being solved.

*We have never quit farming for war.* Airplane plants, steel mills, hand-grenade makers have shifted back to producing things they can sell. It cost the government money to shift them back. Don't let anyone tell you that farmers are the only ones on which Uncle Sam lost money. Government-built plants were sold to industry for mere token payments. If some industries lost money for a year or two, as they retooled to make toothbrushes instead of Tommy guns, the government *paid them back* millions they had paid as income tax on big war profits, to help them adjust production. Labor-union members had unemployment checks to live on while they hunted something to do in a peacetime world.

But farmers have never had such help to adjust. Instead, we have been led along in a weird and wonderful world, subsidized into continuing to produce the foods a wartime world desperately needed. Goods a peacetime world doesn't know what to do with. There's plenty of merit to the idea that we'd be exceedingly wise to fill as many caves and granaries as we can, with all the food we can spare. That we're apt to need it badly if we are drawn into another war. But if we do, let's frankly stock-pile food like we do other strategic materials. Not call it a farm subsidy.

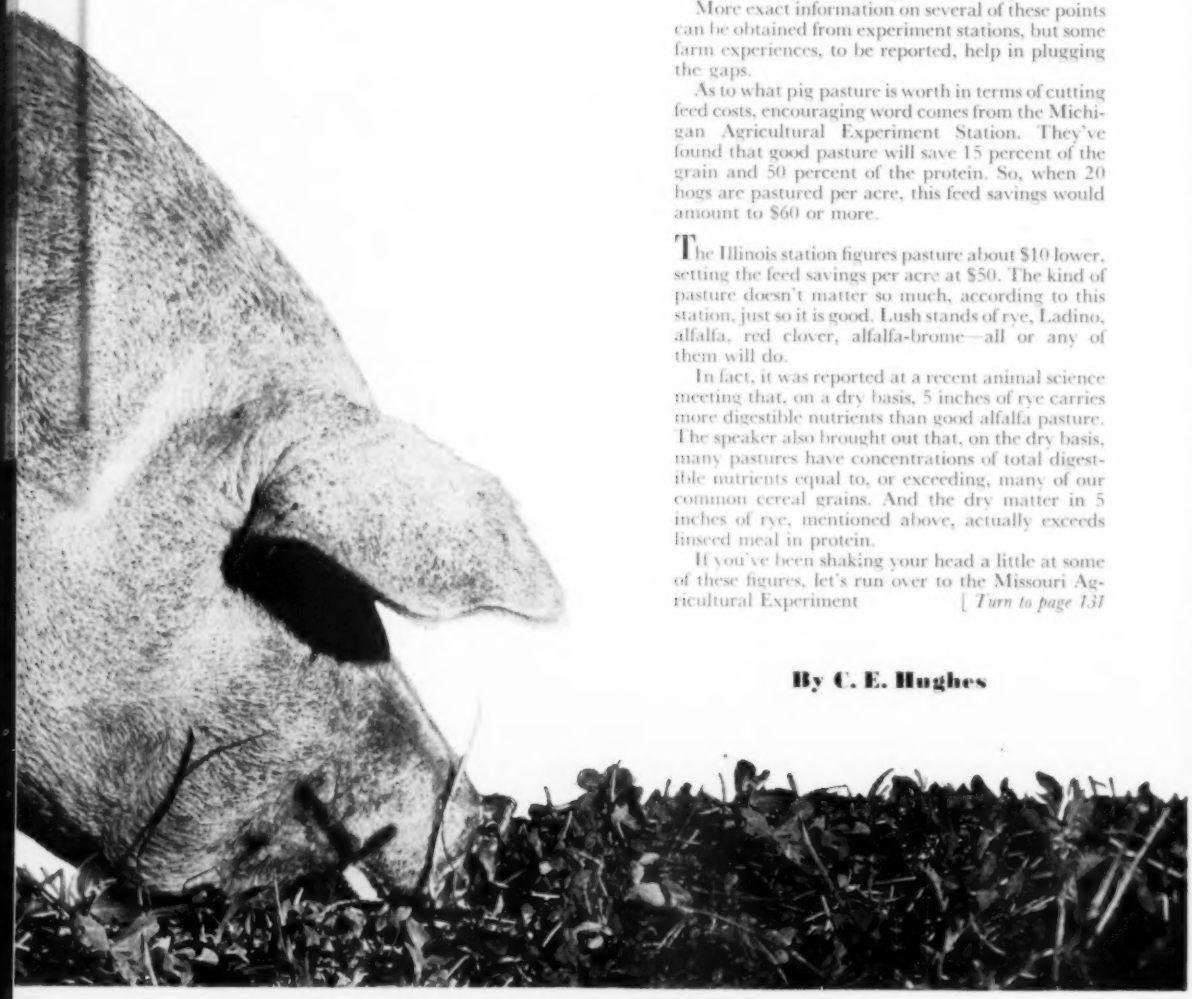
*We know how to produce food better than we know how to sell it.* It's true that just a *little* better diet—and just for those people who can already afford it—would sop up our "surpluses" in six months. Through advertising and aggressive salesmanship, [ *Turn to page 94*

**By Jim Roe**

# There's better feed in

# FOR PORK

**Prospects of having more grass on your farm needn't be a headache. Here are some ways to use that grass, and still stick strictly to a hog-raising program. You'll save feed, save soil, save pigs**



How much grass can a hog eat? That's a question that many a swine producer will be asking himself—if he hasn't already—as he faces the prospect of corn acreage reductions and a bigger share of his farm in grass and legumes.

Lots of hog raisers will hesitate to take on sheep or cattle simply because they have more land in grass. That's why they want to know how far they can go with hogs.

While it's true that grass has been used in hog raising for a long time, a number of questions still beg for an answer. How much grain and protein do you save? Does it pay to make maximum use of grass at the price of slower gains? Can brood sows be carried without dry feed while on grass? Would full use of grass fit into a two-litter system of hog raising? Will grass-fed hogs be less lardy?

More exact information on several of these points can be obtained from experiment stations, but some farm experiences, to be reported, help in plugging the gaps.

As to what pig pasture is worth in terms of cutting feed costs, encouraging word comes from the Michigan Agricultural Experiment Station. They've found that good pasture will save 15 percent of the grain and 50 percent of the protein. So, when 20 hogs are pastured per acre, this feed savings would amount to $60 or more.

The Illinois station figures pasture about $10 lower, setting the feed savings per acre at $50. The kind of pasture doesn't matter so much, according to this station, just so it is good. Lush stands of rye, Ladino, alfalfa, red clover, alfalfa-brome—all or any of them will do.

In fact, it was reported at a recent animal science meeting that, on a dry basis, 5 inches of rye carries more digestible nutrients than good alfalfa pasture. The speaker also brought out that, on the dry basis, many pastures have concentrations of total digestible nutrients equal to, or exceeding, many of our common cereal grains. And the dry matter in 5 inches of rye, mentioned above, actually exceeds linseed meal in protein.

If you've been shaking your head a little at some of these figures, let's run over to the Missouri Agricultural Experiment [ *Turn to page 131*

**By C. E. Hughes**

# GRASS than you think FOR BEEF

**Here's how cattle raisers are getting longer pasture season, better feed from new seedings and management systems**

Hybrid corn and Clinton oats are old stuff. The latest discovery is that legumes and grasses have just as much a place on the farm as the latest crop varieties and modern machinery.

Farmers, in almost every section of the country, are figuring on more acres of legumes and grass for hay, pasture, or a soiling crop to plow under. In the West, the search is for a grass that is more drouth-resistant. Southern agriculture, faced with acreage allotments on cotton, tobacco, and peanuts, is rebuilding worn-out soils through a system of grassland-livestock farming. And Cornbelt farmers, too, are facing drainage and erosion problems as well as acreage allotments on their principal crops. There is no mistaking the trend toward a more widespread use of legumes and grasses.

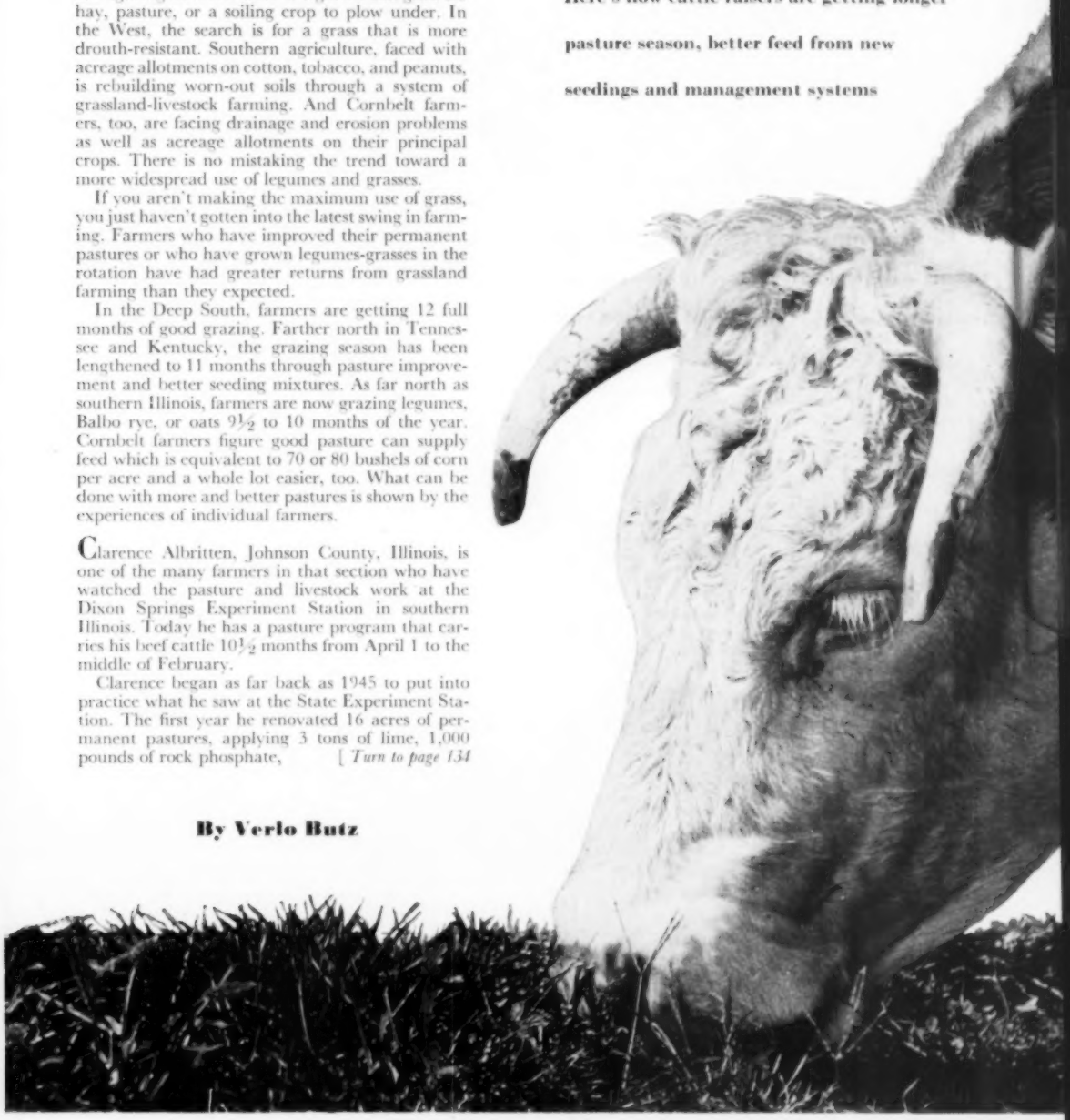
If you aren't making the maximum use of grass, you just haven't gotten into the latest swing in farming. Farmers who have improved their permanent pastures or who have grown legumes-grasses in the rotation have had greater returns from grassland farming than they expected.

In the Deep South, farmers are getting 12 full months of good grazing. Farther north in Tennessee and Kentucky, the grazing season has been lengthened to 11 months through pasture improvement and better seeding mixtures. As far north as southern Illinois, farmers are now grazing legumes, Balbo rye, or oats 9½ to 10 months of the year. Cornbelt farmers figure good pasture can supply feed which is equivalent to 70 or 80 bushels of corn per acre and a whole lot easier, too. What can be done with more and better pastures is shown by the experiences of individual farmers.

Clarence Albritten, Johnson County, Illinois, is one of the many farmers in that section who have watched the pasture and livestock work at the Dixon Springs Experiment Station in southern Illinois. Today he has a pasture program that carries his beef cattle 10½ months from April 1 to the middle of February.

Clarence began as far back as 1945 to put into practice what he saw at the State Experiment Station. The first year he renovated 16 acres of permanent pastures, applying 3 tons of lime, 1,000 pounds of rock phosphate, [ *Turn to page 134*

**By Verlo Butz**



# Better workrooms

## mean less work

**Well-planned and well-equipped workrooms will perform time- and energy-saving miracles. At right is a plan full of step-cutting ideas suitable for your workroom**

**By Margaret Hegerfeld**

A well-planned workroom will not only provide convenient work space—it will cut down the time required to do each job. It will eliminate the need of gathering and moving supplies and equipment because these will be located where they are to be used. We don't need to tell you the value of such an efficient room.

To get a workroom that will do these things for you means considerable planning. If you're fortunate enough to have a workroom already, check it for efficiency. Perhaps you are wasting 10 steps each trip between your laundry sorting area and your washing machine. Can you save those steps by using a laundry cart on wheels? Or by adding a portable worktable that can be rolled where you want it?

Regardless of whether you already have a workroom or are a homemaker *planning* to have one, there are many ideas on the opposite page that you can adopt.

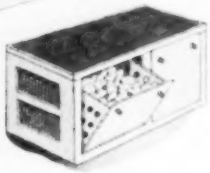
Begin your workroom project by listing all the jobs you want to do in this room. This includes the little jobs as well as the big, messy ones.

Opposite each job you list, make a note of the equipment required to do the job well and as quickly as possible. Then add to this list the place where the job can be done most efficiently—near the range, near the sink, in the laundry area, and so forth. This will give you a clear picture of how many work centers you'll need in your own particular workroom, and it will show how much equipment must go into each center if the workroom really is to cut down on your labors. [ *Turn to page 86*

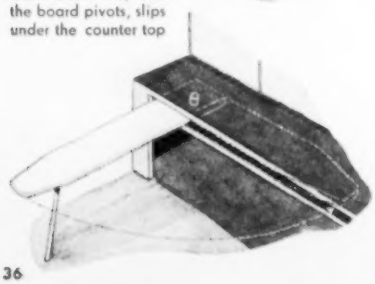
Here's the kind of workroom we'd like every farm homemaker to have. It has centers particularly planned to handle specific jobs—canning, freezing, butchering, laundering, ironing, and sewing. All these centers are located and arranged to save steps. In addition, this ideal workroom has storage for work clothes and cleaning equipment, flower arranging facilities, and a cart and portable table for convenient use anywhere.

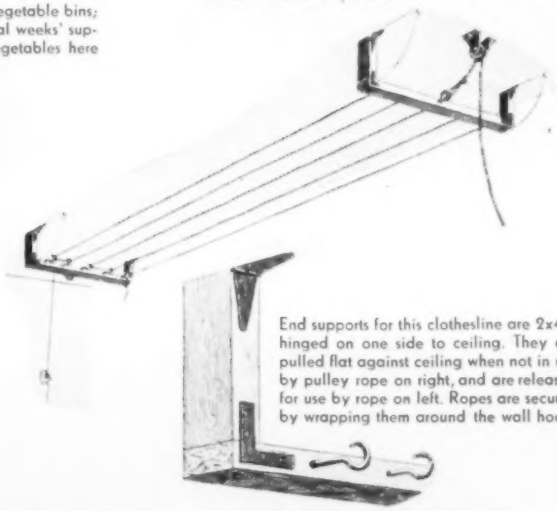
◆ If you have a conventional washer, provide undercounter storage for portable tubs (plan on page 86)

Provide ventilated vegetable bins; you can store several weeks' supply of your root vegetables here ◆

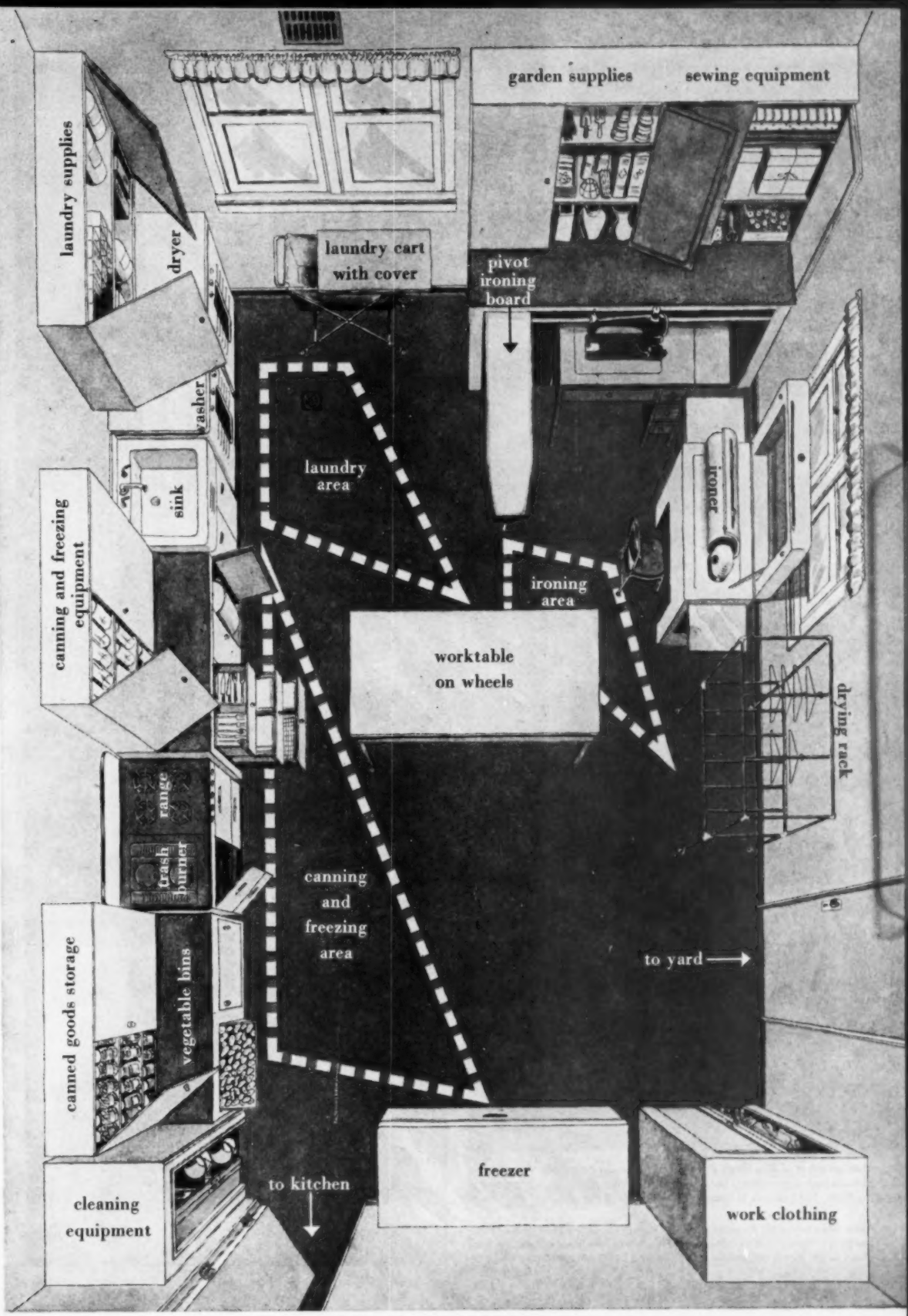


Build in ironing board for easy storage. The leg of this one folds up under the board; then the board pivots, slips under the counter top





End supports for this clothesline are 2x4's, hinged on one side to ceiling. They are pulled flat against ceiling when not in use by pulley rope on right, and are released for use by rope on left. Ropes are secured by wrapping them around the wall hooks


laundry supplies
dryer
washer
sink
canning and freezing equipment
range
trash burner
canned goods storage
vegetable bins
cleaning equipment
to kitchen
laundry cart with cover
laundry area
canning and freezing area
worktable on wheels
ironing area
pivot ironing board
garden supplies
sewing equipment
ironer
drying rack
to yard
freezer
work clothing

# Who says 85 acres aren't enough?

**The Hayners say they ARE and, in proving it, give ideas for the acreage-allotment problems facing us today. Plus a plan for how to live while farming and to farm while still living**

**Cub master** of Boy Scout Pack group in nearby Marshall, Missouri, Sid Hayner here demonstrates knot-tying to Mrs. Hamilton, den mother, and to the boys. Sid believes in farmers being active in the affairs of their towns

**Mrs. Hayner and daughter** Anita Louise can stay ahead of the housekeeping schedule in the work-planned kitchen of new home above. For floor plans of the house this family designed and built, please turn to page 60

**The laborsaving milkhouse** allows Sid and son John Alan Hayner to handle a commercial milk business with one helper. Milk bottling, which the father-son team is doing here, is an especial favorite of John Alan's. His other favorites: dogs, lakes, motors

**Machines do the work** around the Hayner dairy wherever a machine is practical. But Sid is no motor-happy operator. He watches profits

**Mighty handy** with a wrench and the welder he is, too. He even painted the family car, and turned in a job you couldn't tell from brand new

**Helper** Lyle Makings tramps down the silage while Sid waits with the tractor. The men rely upon silage for a goodly portion of the feed

**This launch** is family's pride and joy, acts as floating vacation headquarters on Lake of the Ozarks, 80 miles away from farm

**By Hugh Curtis**

Could you support a family of four, build a new house, and go down to the lake for a family vacation once in a while—on the income you received from 85 acres of Missouri land or its equivalent? Land which even an "Optimist" (and we'll get into that Optimist business later) couldn't have called good to begin with?

Of course, the answer is "Yes." It is in all magazine articles of this kind. Bound to be. But some writers make it all sound so easy and don't tell exactly how. Let's study that out—

In the first place, the J. S. Hayners of near Marshall, Missouri, aren't just wartime wonders. They've been running a commercial dairy from their 85 slightly rolling acres for some time. Long enough to average low prices with high. In the second place, their income is all from the farm, not pieced out from town, though they live but a mile from that town. They're farmers.

So much so that Hayner grew 850 bushels of oats and 340 tons of good corn silage on the place last year. He also picked 1,000 bushels of corn last fall and sold 560 bushels of it off the place. The ear corn alone ran 97 bushels to the acre. [ *Turn to page 60*

# IDEAS *for young rooms*

The room shown on these pages looks almost too good to be true, especially when you realize a busy homemaker is responsible for every bit of it! Mrs. W. Raymond Miller, whose farm home is near Clinton, New York, deserves the bouquets for the entire thing, from the cut-out animal figures to the very last shelf.

Mrs. Miller is one of those creative persons whose energy never gives out. She's completely unafraid of tackling anything, from down-to-earth carpentry to artistic paintings of beautiful scenery.

When Mrs. Miller tackled Roger's small bedroom (it's only about 10'x10'), she knew she'd have to make the most of every inch of space if it were to serve her son's many needs. She took saw in hand and made built-ins which would fill those needs. Shelves for toys, books, and hobby supplies were built in on either side of his large study desk. A radiator was covered with a window seat, then bookcases were added above. This was to be Roger's reading corner.

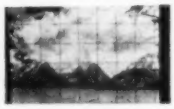
When it came to decorating the room, Mrs. Miller decided the decoration could be and should be just as educational as it was attractive. To prove her point, look at the scenic murals above the bookcases and toy shelves. Those murals are copies from photographs, pictures, and post cards. The animals are scaled miniatures, complete in every detail.

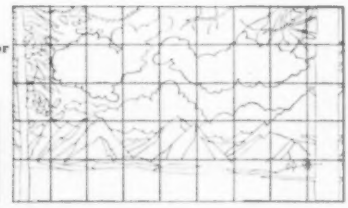
The original drawings were made on sheets of wallboard, then mounted on the wall. To blend murals and ceiling together, Mrs. Miller added the clouds and blue sky. Just a blue sky wasn't enough, though. "Why not make the ceiling an educational thing, too?" thought Mrs. Miller. So she added stars and moon in the same positions in which they appear in the sky. For this she used phosphorescent paint that glows in the darkness.

All this sounds like quite a job for one woman. It was. But Mrs. Miller, somehow, still found time between jobs to continue to add homemade toys to Roger's already fabulous collection. Each toy shown here is a replica of a real truck or fire engine or milk wagon. Each is done to scale, carved from bits of wood. **END**

**By Kay Scott Jones**

**How to copy photographs for large murals**





**Select desired photograph;** scale off in 1" squares in black ink. Then cut a piece of wallboard the size of wall area you want to fill. If the area is twice as large as original photograph, scale off 2" squares on the wallboard, in pencil. If the area is three times the picture size, scale wallboard off in 3" squares, and so on. Thereby, each square in photograph has a corresponding square on the wallboard. Now sketch freehand on the wallboard, copying the lines of the photograph in each corresponding square. When finished, your enlargement will be accurate. Paint the same way.

← **Left:** Here are a few of the toys Mrs. Miller made for Roger. Each is complete in details, made to scale from actual objects

Roger Miller is a lucky lad to have a room like this! His energetic mother not only painted the murals, but made most of the toys and did all the cabinetmaking as well. The murals are as educational as they are attractive, for they are scaled reproductions of actual pictures

# Good May Fare

**It's spring chicken and lamb time. Here are some new main-dish recipes to help you enjoy it to the utmost. They don't take much kitchen time, and they are just what your family needs to begin the merry month of May**

**By Martha Quinn and Lucille Reichlinger**

### *Regal Crown of Lamb*

Serves 4 to 6

**Shape** 12 to 16 lamb ribs into a crown.
**Fill** center with **Celery Stuffing** made as follows:
**Saute** . . . . **½ cup chopped onion**
**1 cup chopped celery** in
**⅓ cup butter**
**Add to** . . . **6 cups tiny toasted or dry bread cubes**
**Add** . . . . . **3 tablespoons chopped parsley**
**¾ teaspoon salt**
**½ teaspoon sage**
**Mix in** . . . **⅓ cup milk or water**
**Toss** lightly; pack lightly in crown.
**Wrap** ends of ribs with
**bacon** or **aluminum foil**
**Roast** on rack in open roasting pan at 325° (moderately slow oven) until done, allowing 30 to 35 minutes per pound.
**Remove** bacon or foil from rib ends.
**Decorate** rib ends with paper frills.
**Place** in center of large platter.
**Arrange** around crown, if you desire, **small parsleyed potatoes** and **creme de mint pear halves;** top each pear with a **canned apricot** studded with **whole cloves.** (Creme de mint pears are available in most grocery stores.)

### *French Chicken Legs*

Serves 8

**Saute** . . . . **2 tablespoons finely chopped onion** in
**¼ cup butter**
**Stir in** . . . . **½ cup flour**
**1 teaspoon salt**
**¼ teaspoon pepper**
**Blend** well; remove from heat.
**Add** gradually
**2 cups milk** or **chicken stock**
**Return** to heat; cook, stirring constantly, until thick and smooth.
**Add** . . . . . **4 cups finely chopped cooked chicken**
**Chill** thoroughly.
**Shape** into 8 large legs.
**Dip** legs into
**1 slightly beaten egg**
**Roll** in . . . **1 cup cracker or fine bread crumbs**
**Fry** in deep fat at 375° until golden brown.
**Drain** on absorbent paper.
**Stick** a wooden skewer in end of each leg so finished product resembles a chicken leg.
**Serve** on platter with **Pickle-Cheese Sauce** made as follows:
**Melt** . . . . **3 tablespoons butter**
**Stir in** . . . . **2 tablespoons flour**
**½ teaspoon salt**
**⅛ teaspoon pepper**
**Remove** from heat.
**Add** . . . . . **1¼ cups milk**
**⅓ cup Cheddar cheese spread**
**Return** to heat; cook, stirring constantly, until thick and smooth.
**Add** . . . . . **1 teaspoon Worcestershire sauce**
**⅓ cup chopped sweet pickle**
**⅓ cup chopped red pimiento**

### *Chicken-Vegetable Pie*

Serves 6

**Combine** **3 cups cooked chicken,** cut in pieces
**1 cup cooked sliced carrots**
**12 small whole cooked onions**
**12 medium-sized potatoes,** cooked, diced
**½ cup button mushrooms**
**Arrange** in 6 individual casseroles.
**Melt** . . . . **⅓ cup chicken fat** or **butter**
**Add** in order
**⅓ cup flour**
**1 teaspoon salt**
**⅛ teaspoon pepper**
**2 cups chicken stock**
**1½ cups light cream**
**Cook** over low heat, stirring, until thick.

[ *Turn to page 58*

Last in a series

Pig saver 7

**Anemia** is no problem when you swab udders with iron and copper sulfate solution, or dust bedding with mixture of powdered iron and copper sulfate, plus air-slaked lime. Some give pills to pigs, others rely on clean sod

# How

This concludes a series of pig-saving articles that began with the November, 1949, issue. The author has been advising farmers about disease control for 37 years

**Mange cured** by dunking pigs in barrel of water and benzene hexachloride at recommended proportions. One dipping usually does job. Gets lice, too. Musty odor leaves in two or three days if the better preparations are used

**Hypoglycemia** is a pig killer, but can be cured with into-the-belly shots of glucose or dextrose solutions. Keep warm, feed cow's milk

**Cross sow or poor milker** can be helped by injecting a pituitary extract. Milk flow often begins shortly, and temper changes quickly. Can stick needle in flank or behind ear

**Sore mouth** from fighting can lead to bullnose. Treat cuts or sores with tincture of iodine. Make swab by twisting long-fiber cotton on end of toothpick. It's better than glass rod

**Castrate** by making cuts so low (above) that, when viewed from behind, forward end of slits can't be seen. Drain better, no pus pockets. Good age is 12 days; less shock, bleeding

**Prepare wormer** by mixing ¾ pound sodium fluoride with 10 pounds feed. Mix with 90 pounds feed. Some use hammer mill

# to have healthier pigs

By Dr. K. W. Stonder
Veterinarian, Iowa State College

The troubles of newborn pigs are not all due to diseases; some of them are nutritional. Often the two overlap.

**Anemia** is almost sure to come if pigs are raised on wood or cement floors. Most of this trouble is due to lack of sufficient iron intake with the food. Since the sow's milk is almost devoid of iron, her pigs must get it from some other source.

Make a solution of iron sulfate, 25 percent; copper sulfate, 2 percent; and water, 73 percent, by weight. Paint or swab this on the udders of the sow during the suckling period (see picture above).

Some men put clean sod or dirt in the pens. Another method of getting iron to the pigs is to mix 4 ounces of finely powdered copper sulfate with 2 pounds of powdered iron sulfate and 100 pounds of air-slaked lime, fine sand, or fuller's earth. Dust this in the bedding.

Some farmers give iron pills to the pigs.

**Hypoglycemia** is another common reason for baby pig losses. Caused by low blood sugar content, this ailment results in loss of appetite, indifference, and a marked reduction in vigor. It often follows chilling, but there may be other causes.

Left alone, the pigs will die, for they fail to suck. But, if the condition is called to the attention of a veterinarian, many pigs will be saved by supplying immediate nourishment. This is done with into-the-belly shots of 5 to 10 c.c. of a 50-percent, specially prepared solution of glucose or dextrose in sterile water (see picture above). Follow this by putting them in a warm place with some additional feeding of cow's milk or this glucose solution.

It is not difficult to learn the technique of into-the-belly injections, and some veterinarians, desiring to save as many pigs as possible, leave equipment and supplies with hog men, who under their guidance can use this when needed.

**Cross sows and poor milkers** result in considerable pig losses. To quiet the vicious sow or to start milk flow, veterinarians inject some of the extract from the pituitary gland (see picture above), and normal milk flow often will begin in a matter of a few minutes. The temper and attitude of the mother changes as quickly.

In many instances this injection, accompanied by hot and cold packs alternately to the udder, is the best treatment yet found for caked udders and mastitis in the sow. This treatment must be used early in any of these conditions to get desired results.

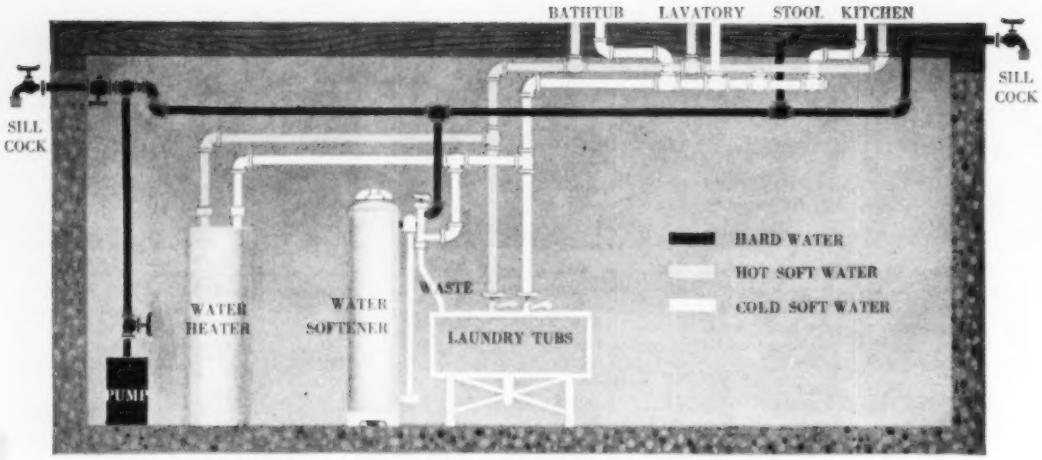
**Sore mouth and bullnose** are responsible for many runts and lost pigs. Most of the trouble starts from wounds of the mouth and face made by the small tusk teeth.

Catch the pigs and examine the mouths occasionally. If red, angry spots or small yellow ulcers are seen in the mouth lining or skin of the face, suspect that the pigs are fighting. Treat these wounds immediately with some tincture of iodine applied with a small swab of cotton on a small stick (see picture above). Cut off the tusk teeth to stop the injuries. Dunk the pigs, head first, in a solution of 1 percent copper sulfate in water daily.

When the older pigs develop bullnose and breathe with difficulty or frequently sneeze and sniffle, it's a sign that inhaled dust laden with germs aided by a virus has weakened the tissues of the upper nostrils. Nothing can be done to check it. Don't keep for breeding stock any of a herd that has suffered from this.

**Best time to castrate pigs** is a subject often debated among hog raisers. Carl Anderson, near Wellman, Iowa, has raised hogs for 38 years, and says that it is a "must" to castrate all the males at one week of age. They are easily handled, show no shock at all, and lose very little blood. He says that he has never had a callous or tumor on a pig castrated at this age.

Make the wounds so low (see picture above) that, [ *Turn to page 158*




The sketch above shows how easy it is to hook up a water softener to have both hot soft and cold soft water. Dark pipes show water in the system that doesn't need to be softened

# What to do about hard water

**Plagued with hard water? Whether your hard-water situation is acute or mild, you can spot the symptoms. Here is a simple diagnosis and prescription for the condition found on your own farm**

**By Jo Kelleher**

The hard-water plague spreads blanketlike over the Midwestern states. If you are using hard water in your home, it is taking a toll of from $100 to $150 from your pocket each year. You don't get a bill for "Use of Hard Water," but additional soap, wear and tear on fabric, plumbing expenses, and fuel expense make up the total cost.

For example, a testing-laboratory estimate of the amount of soap purchased per year per family using soft water as against a family using hard water showed a saving of over 80 percent in favor of the soft-water installation. The test, of course, was based on use for bathroom, kitchen, and laundry, not just laundry alone.

It must be kept in mind here that this is the estimate of only one laboratory using one set of samples under local conditions. Nevertheless, don't you agree that a savings as great as that 80 percent—or anything in the neighborhood of it—indicates tremendous advantages to having soft water set up in the farm home?

**Symptoms of hard-water plague:** If you moan and groan over gray and dingy washings, the harshness of the clothes, pipes that are clogged with lime, irritated skin, chalky deposits on milk utensils, and the ever-present gray ring around the bathtub—and if you are always "out of soap"—you are probably a victim of the hard-water plague. The situation can become much more serious as time goes on and the liming-up of pipes and tanks makes a whole, new water system necessary. That often happens, you know.

**Complications** commonly found running along with hard-water plague include a curd formation which turns clothing gray, and which combines with grease on dishes, leaving a dull film. Another complication is the chalky white deposit on milk utensils. The milkstone, as it is called, serves as an ideal protective coating for bacteria. Thus, washing cans and utensils in hard water accelerates bacterial formation. High bacterial counts mean lower milk checks.

**Diagnosis:** You can diagnose your own case with a solution of tincture of green soap. Fill a clean, one-ounce bottle half full with a sample of water taken from your well. (It is a good idea to let the water run for a while before taking a sample.) Add one drop of soap; shake the bottle. If no suds appear, [ *Turn to page 122*

# Are you losing money on machinery?

**Not if you're giving it plenty of use. But as soon as you cut down the number of hours you use a machine, its cost per hour jumps up**

**By Walter Wilcox**

Modern farm machinery is a profitable investment. But only when it is used close to its capacity. Excessive machinery investments are the result of buying too big a machine for a small job. Many jobs on the average family farm are too small to warrant investment in a modern machine to do them. The solution is to exchange machine work with a neighbor, or hire the job done on a custom basis.

Here, tool by tool, are some guides to help you judge when you need a machine, when you don't.

**Tractors.** One tractor should handle the average family farm with 60 to 100 acres of crops. A tractor on such a farm will be used 500 to 750 hours a [ *Turn to page 66*

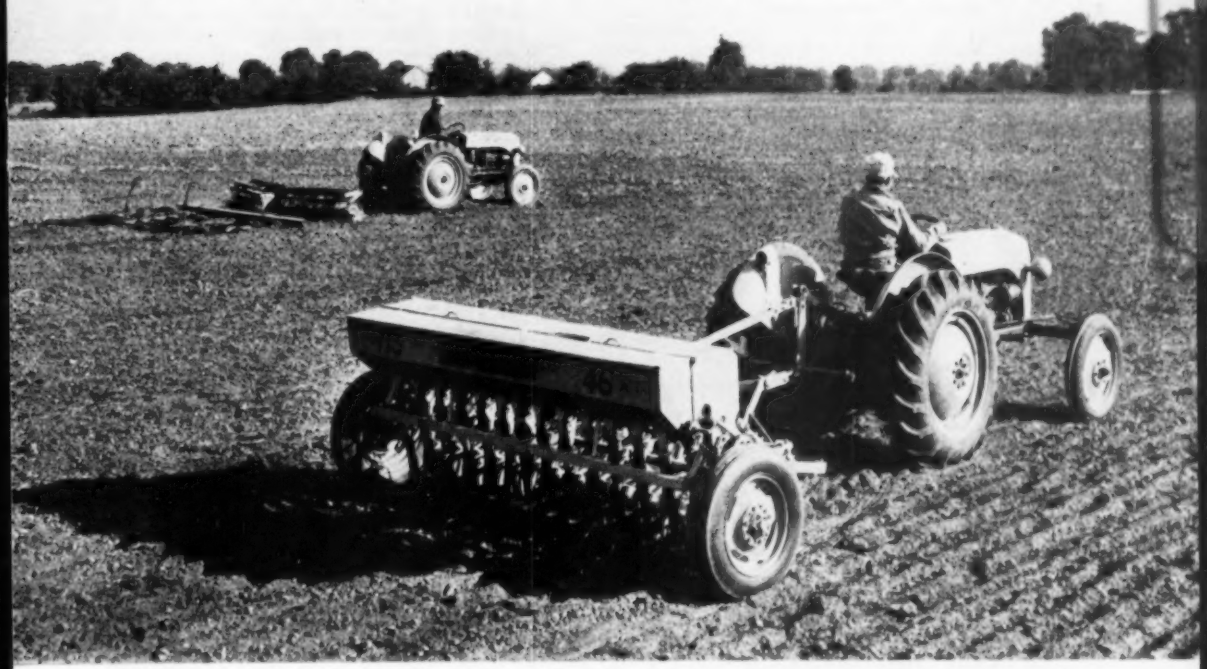
**Estimated cost per hour of machine use***
(As related to hours of use annually)

**General farm machinery**

| Hours of use per year | Cost of machine $200 | $400 | $600 |
|---|---|---|---|
| 25 | $.70 | $1.40 | $2.10 |
| 50 | .36 | .72 | 1.08 |
| 100 | .20 | .40 | .60 |
| 200 | .16 | .32 | .48 |
| 300 | .15 | .30 | .45 |

**Tractors**

| Hours of use per year | Cost of machine $1,000 | $1,500 | $2,000 |
|---|---|---|---|
| 100 | $.90 | $1.35 | $1.80 |
| 300 | .33 | .50 | .66 |
| 500 | .25 | .38 | .50 |
| 700 | .23 | .34 | .46 |
| 900 | .22 | .33 | .44 |



*These estimates are based on Ohio Extension Bulletin 221 and Special Surveys in Wisconsin. They include interest, insurance, taxes, housing, repairs, and depreciation on both general farm machinery and tractors. They do not include the fuel and oil

# What's your weed control problem?

**Here are answers to your questions on cheap, quick weed killing**

**By E. P. Sylwester**
Iowa State College

***Question:*** How many different forms of 2,4-D are on the market?

***Answer:*** All 2,4-D materials, regardless of trade name, fall into one of three classes: (1) salts of 2,4-D, which are powders; (2) amine salts of 2,4-D, which are water-soluble liquid concentrates; and (3) esters of 2,4-D which, upon mixing with water, make emulsions. Esters are the most potent.

***Question:*** What is the general, over-all form of 2,4-D preferred for all spraying?

***Answer:*** There is probably no one 2,4-D formulation which will do for all spraying. It is up to you to decide what type of weed you have to kill, where the weeds are located, and how resistant or susceptible the adjoining crops are.

***Question:*** Where is the best place, then, to use each form of 2,4-D?

***Answer:*** Generally speaking, the salts, or powder forms, are very stable, dissolve completely in water, and do not present the danger from spray fumes that are found in the ester forms. For most lawn weeds, they are effective enough and are probably the safest forms to use where danger from spray fumes is a factor.

In small-grain and corn spraying, the amines have come into favor. Most of the amines carry exactly 4 pounds of 2,4-D to the gallon. This makes calculation on a poundage per acre basis quite simple.

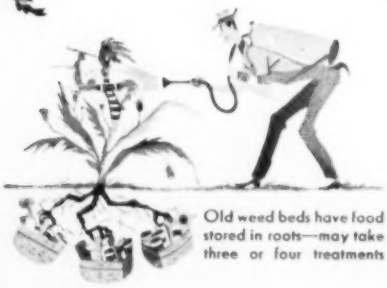
For fence rows, ditchbanks, roadsides, and pastures, the preferred forms to use are the ester formulations. This is because they are more resistant to washing off if it rains right away. They are more effective on perennial weeds, and stage of growth of the plant is less likely to make much difference.

***Question:*** Will 2,4-D kill crabgrass?

***Answer:*** Once it has attained any size, crabgrass is completely resistant to 2,4-D. However, there is some evidence that if spraying with rather heavy dosages of 2,4-D is done at the very first sign of crabgrass and then repeated at intervals of about 2 weeks, the seedlings often can't take it. In other words, this is a sort of pre-emergent spraying treatment. Lately, new materials such as phenyl mercuric acetate (PMA for short) have shown promise if used as a pre-emergent spray on crabgrass. However, more experimental work needs to be done on these.

***Question:*** On what plants has 2,4-D, used as a pre-emergent spray, shown the most promise?

Get acquainted with all types of weed killers to suit your individual weed problems



Old weed beds have food stored in roots—may take three or four treatments

Windy days may cause 2,4-D to drift into neighbor's fields. He may not like it. Know a good lawyer?

2,4-D doesn't hurt honeybees

***Answer:*** The most work has been done on corn and sweet corn. There, you have a fairly large seed and a husky seedling, and the seed is planted 1 to 2 inches deep. This places the very young germinating seedling below the depth of the most active action of the 2,4-D. The seedling then pushes up through this treated zone, but the weed seeds *in* the upper soil layers germinate and come in contact with the 2,4-D and are killed.

***Question:*** Where will 2,4-D pre-emergent spraying work best?

***Answer:*** Perhaps in cornfields which are subject to overflow, or which have always presented a weed problem. Floodwater carries with it a tremendous number of weed seeds. Very often such soil is too wet to be effectively cultivated to keep down the early growth of weeds.

***Question:*** How many different types of weed-killing chemicals are there?

***Answer:*** Now you're asking for a tongue-twisting answer. Sodium chlorate and Atlacide have both been on the market a long time. Their uses are well known. Ammate is another material which has been available for quite some time. The dinitro compounds such as Sinox, Dow Selective, and Dow General have also been in fairly extensive use for some time. Others include various formulations of borax; IPC; TCA; 2,4,5-T; and 2,4-D.

Common salt has been used as a weed killer, especially against barberry bushes. In addition to this, there are several more compounds under test for effectiveness in weed killing at the present time.

***Question:*** What is 2,4,5-T?

***Answer:*** 2,4,5-T is a sister compound of 2,4-D and has shown promise in the control of brush. Usually it is used in combination with 2,4-D. No one knows exactly what the strength of the two compounds should be, but it is quite generally agreed that 50-50 mixtures of 2,4-D and 2,4,5-T esters applied to brush in water or oil carriers are very effective. Usually, 1 to 1½ pounds of active ingredients are used per acre.

***Question:*** What is the most effective material to use on field mustard on a large area?

***Answer:*** Mustard is a pushover for 2,4-D. Dosages as low as ¼ pound of ester or ½ pound of salt or amine type 2,4-D per acre will take mustard out of small-grain fields.

***Question:*** When should 2,4-D be applied to small grain for the control of annual weeds?

***Answer:*** After the small grain has completed stooling or tillering, and before the heads appear. This means fairly early spraying, before the weed robbers have had a chance to steal the nutrients and moisture away from the growing crop. Fall-seeded small grains such as rye or winter wheat should always be sprayed in the spring, never in the fall.

***Question:*** Will wild morning-glory always be killed 100 percent in one application?

***Answer:*** It is rather unusual to get a 100-percent kill of most perennial weeds which have horizontal root systems. Regrowth can be expected. However, terrific reductions in the stand have been secured with just one treatment.

***Question:*** How many treatments are necessary for Canadian thistle and bindweed?

***Answer:*** That depends upon the individual situation. If the Canadian thistle patch or bindweed patch is old and tough, and if nothing has been done to eradicate it, several treatments will be needed. If, on the other hand, the patch has been weakened by repeated cultivations, two or three sprayings will often kill out the patches completely.

***Question:*** What chemical is best to use for the control of poison ivy?

***Answer:*** In the Cornbelt, 2,4-D ester will kill poison ivy, usually in one or, at the most, two applications.

***Question:*** Is 2,4-D absolutely safe to use in pastures?

***Answer:*** So far as the actual 2,4-D is concerned, it has been tested extensively on grazing animals without ill effects. Pastures have been sprayed with two to three times the normal dosage, and animals have been pastured on these sprayed areas without ill effect. Remember, though, that in some pastures there may be poisonous plants which may be made more attractive to animals through spraying.

***Question:*** Does 2,4-D lose its strength on standing? Can I keep it from year to year?

***Answer:*** A reasonable storage period, such as one to three years, will not affect the potency of 2,4-D.

***Question:*** What is the best way of controlling Canadian thistles in corn? *Turn to page 76*

**Chemicals aren't the only answer. Good cover crops choke the weeds**

**Pre-emergent spray is handy for wet spots, where weeds are apt to get head start**

**Animals have shown no ill effects from pastures sprayed with a heavy 2,4-D solution**

# Fashions go washable

**By Nancy Carpenter**

Soap-and-water fabrics steal this season's show. Cottons, nylons, linens, many rayons, even silk crepes take to the tub and enjoy it. From dressy to casual, from evening to housedress, the washables crowd the spotlight. They go anywhere, everywhere in a host of interesting new finishes.

You'll find dresses in blistered piqué so crisp it needs only the touch of a hot iron; nylon shantungs and sheers that dry in a whisk with no ironing required; cotton that looks like rich brocade; iridescent chambrays; crease-resistant linens and cottons; and washable, metallic-threaded materials. These, and more, in clothing designs combine comfort and fashion with easy-care fabrics.

**Preview the styles.** Here are the highlights that make this summer's wardrobes more attractive than ever, and fun to wear:

*Separates* are top news. Watch for full, four-yard skirts, gathered or pleated or flared; big, interesting pockets. Watch, too, for trim little bodice tops, unmounted sleeves, crisp white collars, and natural shoulder lines.

*Sundresses* double for everything from spectator sports to informal dinner-dancing. You will see them in fabrics from outdoorsy denims to heavenly voiles, with smart cover-up jackets for an after-dark role.

*Shirt dresses* are in vogue with soft, easy skirts, blouse tops that boast wonderful back fullness. They come with or without sleeves.

*Two-piece ensembles* are definitely popular. The complete go-to-town dress is topped with a companion full-length or shortie coat for dawn-to-dusk wearing. Overskirts and aprons draw a big fashion play, too.

*Toppers* this season are short (waist length to 19 inches) and go over everything. They feature dropped shoulders; turn-back cuffs; large, high collars; and becoming belted or full silhouettes.

*Turn to page 123 for more information on the smart washables featured on these pages.*

**Above:** Wearable, washable rayon rates high this year. In lovely, light shades, it's a favorite at home or wherever you wear it. This slim, classic princess style is flattering with wide, generous lapels, gently flared skirt, and white braid trim. The graceful hip pockets make waistlines look smaller

**Right:** No ironing required for crisp pucker nylon. Just quick-suds this sundress, rinse, and hang it up to dry. Typical of the new multipurpose clothes, there's a perky little companion jacket of spun rayon to slip on at sundown or for dressy day wear. You will enjoy these becoming "go-anywhere" styles.

**Left:** Dark plaid's the thing. In wrinkle-shed gingham, it's lively, becoming, and wonderfully practical for warm-weather wardrobes. Note the smart pencil-slim skirt and trim, belted jacket with its shirtwaist collar and deep-pocket interest

**Above:** Every woman loves a sunback that's enough of a dress to take her shopping, to meetings, to movies. Pert shortie jacket tops a flattering playtime sundress to make this plaid gingham outfit perfect for around-the-clock wear

**For more new washables, next page** ⟶

# Queen of the May

## The loveliest cakes in the world are made with BAKER'S Chocolate!

Walter Baker's Premium No. 1 is America's favorite cooking chocolate. For this prize winner, follow the Devil's Food Cake recipe on the Premium No. 1 package and top it with this luscious frosting.

**LA BELLE FROSTING**

Combine 2 cups sifted confectioners' sugar, 3 unbeaten egg yolks, ½ cup milk, 1 teaspoon vanilla, 4 squares Baker's Unsweetened Chocolate, melted, and 2 tablespoons butter. Beat with rotary egg beater until blended. Place bowl in pan of cracked ice and continue beating until of right consistency to spread (about 3 minutes). Makes 2½ cups frosting, or enough to cover tops and sides of two 9-inch layers.

## Maypole Parfait

**BAKER'S GERMAN'S SWEET CHOCOLATE! GRAND FOR EATING AND MAKING SPECIAL DESSERTS!**

For instance—try this festive but oh-so-easy parfait: Combine 1 package Baker's German's Sweet Chocolate with 2 tablespoons water. Melt over low heat, stirring constantly. Remove from heat, add 2 tablespoons cream or evaporated milk, and stir smooth. Alternate sauce with layers of ice cream in parfait glasses. Top with cherry.

*Products of General Foods*

*CHOCOLATE-LOVIN' FOLKS ENJOY THE WHOLE WALTER BAKER FAMILY!*

**Dot Chocolate ♥ 4 in 1 Sweet Cocoa Mix ♥ Premium No. 1**

**German's Sweet Chocolate ♥ Breakfast Cocoa ♥ Semi-Sweet Chocolate Chips**




## Fashions go washable

[ *From page 51* ]

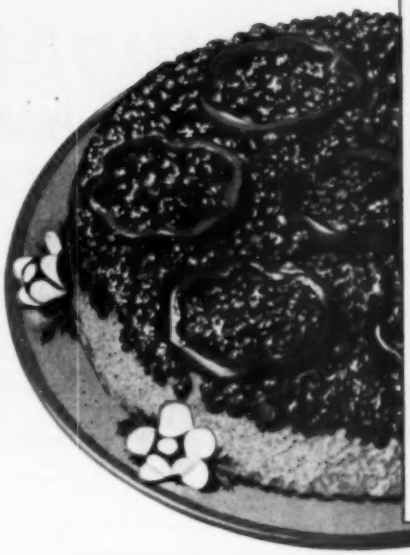
Pastels are perfect—and tubbable now in linenlike rayons. This dress features stylewise hip pockets and a round jewel neckline that welcomes white beads or a gay bunch of spring flowers clipped at one side

Ice-cream colored eyelet pique appears fresh and crisp-cool on hot summer days. Wear it comfortably casual, dressy if you wish. Tuck a bright spring posy at beltline for that smart little "extra" note

Unbeatable chambrays are easy to launder, easy to look fresh and perky in, too. The comfortable daytime dress above boasts becoming box-tucking on the bodice, below-the-waist fullness so gentle to hiplines

New nylon print sheers look cucumber cool. The soft Peter Pan collar, gay shocking-pink belt, all-around pleated skirt, and new short-short sleeves add some of the season's most attractive fashion touches


# Tonight! Meat 'n' Pepper Corn Bread!



**A thrifty new way to delight 8 hungry people!**

Your family will love this tempting blend of hot chopped meat and tangy peppers—on a bed of sunny-tasting Quaker Corn Bread. Easy to make, too!

**Chopped meat base**

*1 tablespoon shortening • ½ cup chopped onion • 1 pound ground beef • 1 8-oz. can tomato sauce • 1½ teaspoons chili powder • 1 teaspoon salt • ¼ teaspoon pepper • 1 recipe Lightning Golden Corn Bread batter (use recipe at bottom of page, omitting sugar) • 6 or 7 green pepper rings*

**1.** Lightly brown the onion and ground beef in shortening in a frying pan. **2.** Add tomato sauce and seasonings; simmer while preparing corn bread batter. **3.** Place pepper rings in bottom of frying pan so they form design under meat. **4.** Pour corn bread batter over meat. Bake in a hot oven (425° F.) 20 to 25 minutes. Invert on platter and serve.

## Warm your husband's heart with old-fashioned Corn Bread!

Serve corn bread often. Men love its crisp texture, its delicious sunny flavor. Corn bread makes plain meals special. And *it's easier than ever to prepare with this new one-bowl recipe.* (Recipe makes nine servings.)

*1 cup sifted enriched flour • 1 cup Quaker Yellow Corn Meal • 4 teaspoons baking powder • ½ teaspoon salt • ¼ cup sugar • 1 egg • 1 cup milk • ¼ cup shortening, soft*

**1.** Sift together dry ingredients into medium-sized bowl. Add egg, milk and shortening. **2.** Beat with rotary egg beater until smooth, about 1 minute. *Do not overbeat.* **3.** Bake in greased 8" square pan or greased muffin pans in hot oven (425° F.) 20 to 25 minutes. Cut into squares and serve hot.

**FREE! MARY ALDEN'S COOKBOOK, "ADVENTURES IN CORN MEAL COOKERY"!**

There are 22 wonderful recipes like the one above in this handy-size cookbook. Twenty-two ways to give your meals new zest and variety with corn meal. Packed with clear illustrations . . . easy-to-follow instructions. Yours absolutely free! Mail in the coupon today . . .

To The Quaker Oats Company, Department C-5
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*Please rush me Mary Alden's cookbook, "Adventures in Corn Meal Cookery."*

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**QUAKER CORN MEAL**

# NOW IN EVERY BAG OF
# Pillsbury's BEST

## ALL 9 Top PRIZE-WINNING RECIPES
*( from the 100 best )*
## in Pillsbury's $100,000
## GRAND NATIONAL RECIPE AND BAKING CONTEST

***Adapted for your use by Ann Pillsbury***

At our Grand National "Bake-off" at the Waldorf-Astoria Hotel last December, I realized how strong the love for good baked foods still is in this country of ours.

You may want to add some touch of your own to these nine grand-prize-winning recipes (as women do, who bake with their hearts, as well as their hands). But I know that you will find the recipes every bit as interesting as I did . . . and that you'll want to try them soon.

These nine recipes now are in every sack of our Pillsbury's Best Flour. Each one was especially submitted for use with Pillsbury's Best. Each one is arranged in easy-to-follow, step-by-step form.

Good luck and good baking!

Ann Pillsbury

*Director, Pillsbury's Home Service Center*

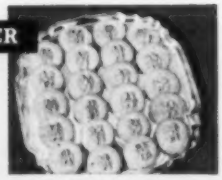
**$50,000 WINNER**

**Pillsbury's $50,000 No-Knead Water-Rising Twists**

submitted by
Mrs. Ralph E. Smafield
Detroit, Michigan

These unusual sweet rolls rise either in water—or by the regular method.

**$10,000 WINNER**



**Starlight Mint Surprise Cookies**
by Miss Laura Rott, Naperville, Illinois. Wait till you taste the chocolate mint surprise that's baked right into these cookies!

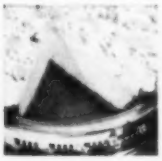
**$4,000 WINNER**

**Aunt Carrie's Bonbon Cake**
by Mrs. R. W. Sprague, San Marino, California. Here is a particularly delicate and tender chocolate cake—wonderful-looking, too.

**$1,000 WINNER**

**Jonquil Sponge Cake** by Mrs. Estelle Worley, Los Angeles, Calif. So beautiful it needs no frosting—only whipped cream.

**$1,000 WINNER**



**Chocolate-Crusted Pie** by Mrs. Robert Monroe, Atlantic City, N. J. Vanilla filling with whipped cream and bits of chocolate pastry.

**$1,000 WINNER**

**Crusty Dinner Rolls** by Mrs. C. Arthur Reseland, Des Moines, Ia. Golden brown, crisp outside—light and tender inside.

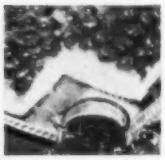
**$1,000 WINNER**

**Sea Foam Nut Squares** by Mrs. Eddie R. Wagoner, Bryan, Tex. Delicious as sea foam divinity, with a wonderful "chewiness."

**$1,000 WINNER**

**Deauville Dumplings** by Mrs. Joseph F. Maley, Osborn, O. A seasoning trick makes them perfect with chicken or meat stew.

**$1,000 WINNER**



**Mount Vernon Dessert** by Mrs. Harry W. O'Donnell, Crandon, Wis. Sauce and whipped cream go with this cherry dessert.

***Rhubarb Cream Pie***
Makes one 8-inch pie

**Melt** . . . . **2 tablespoons butter**
**Add** . . . . . **2 cups diced rhubarb**
**1 cup sugar**
**Cook** slowly until rhubarb is tender.
**Combine** **¼ cup sugar**
**2 tablespoons cornstarch**
**2 egg yolks,** well beaten
**¼ cup light cream**
**⅛ teaspoon salt**
**Add** to rhubarb and cook until thick.
**Cool;** pour into baked 8-inch pie shell.
**Top** with meringue.
**Bake** at 350° (moderate) 12 to 15 minutes.
*—Mrs. A. D. Trochinski, Minnesota*

***Pink Punch***
Makes 8 glasses

**Combine** **2½ cups diced rhubarb**
**1 cup water**
**Cook** until tender; strain. There should be 2 cups. (If necessary, add more water to pulp, simmer, and strain to make 2 cups.)
**Add** . . . . . **¾ cup sugar**
**¾ cup orange juice**
**½ cup cherry juice**
**¼ cup pineapple juice**
**¼ cup lemon juice**
**Chill** thoroughly.
**Add** just before serving:
**1 cup iced water**
**1 cup iced ginger ale.**
*—Alice Ann Patterson, Illinois*

**Rhubarb Revel**
Serves 6 to 8

**Combine** **3 cups diced rhubarb**
**1 cup water**
**Cook** until tender.
**Stir in** . . . **1 cup sugar**
**Run** through a sieve.
**Add** . . . . . **½ cup crushed strawberries,** sweetened with
**3 tablespoons sugar**
**Stir in** . . . **1 tablespoon lemon juice**
**⅛ teaspoon salt**
**Pour** into trays and partly freeze.
**Remove** to chilled bowl. Beat until smooth.
**Fold in** . . . **2 egg whites,** stiffly beaten
**1 cup heavy cream,** whipped
**Return** to trays and freeze until firm.
*—Mrs. Harry E. Matthews, Ohio*

# Springtime salads

**The kind of salads men like—crisp, garden-fresh greens tossed with snappy dressings**

***Garden Medley***
Serves 6 to 8

**Toss** together lightly and chill
**1 quart young beet greens,** coarsely torn
**2 cups fresh spinach,** coarsely torn (any fresh greens may be substituted for the above)
**¾ cup chopped onion**
**½ cup chopped celery**
**6 hard-cooked eggs,** sliced
**1½ teaspoons salt**
**¼ teaspoon pepper**
**Add** just before serving
**½ cup French dressing**
**Toss** again and serve immediately.
*—Mrs. Curtis A. Black, Missouri*

***Green-and-White Salad***
Serves 4 to 6

**Combine** **1½ cups shredded leaf lettuce** (or any greens desired)
**1 cup sliced raw cauliflower**
**3 tablespoons chopped sweet pickle**
**Chill** thoroughly.
**Combine** **3 tablespoons salad oil**
**3 tablespoons vinegar**
**½ teaspoon salt**
**2½ teaspoons sugar**
**⅛ teaspoon pepper**
**⅛ teaspoon paprika**
**½ teaspoon grated onion**
**Shake thoroughly** in covered jar.
**Pour** over greens. Toss lightly.
**Serve** immediately.
*—Mrs. Helen S. Cummings, South Dakota*

***Spinach Salad Bowl***

Serves 6 to 8

**Combine** in large salad bowl:
- **1 quart chilled, fresh spinach,** coarsely torn
- **1 cup chilled, cooked peas**
- **1/4 cup chopped onion**
- **4 medium tomatoes,** chilled and cut in wedges
- **1 teaspoon salt**
- **1/4 teaspoon pepper**

**Toss** lightly, just before serving, with
- **1/3 cup French dressing.**

—*Mrs. R. A. Laing, Michigan*

***Fresh Greens With Bacon Dressing***

Serves 6

**Fry** crisp **4 strips diced bacon**

**Combine**
- **2 tablespoons drippings**
- **1 hard-cooked egg yolk,** mashed
- **1/4 cup light cream**
- **1/3 cup vinegar**
- **1 teaspoon sugar**
- **1/2 teaspoon dry mustard**
- **1/4 teaspoon garlic salt**
- **1/4 teaspoon salad herbs**
- **Salt** and **pepper** to taste

**Add** ..... **1 hard-cooked egg white,** chopped, and the **diced bacon**

**Heat** mixture through.

**Cool** slightly; pour over **chilled, crisp, mixed greens** (spinach, young beet tops, dandelion, lettuce).

—*Mrs. John Dvorak, Iowa*

***Real Man's Salad***

Serves 6 to 8

**Rub 1 clove garlic** on salad bowl

**Add** ..... **2 cups shredded cabbage**
- **2 cups chopped lettuce**
- **2 cups chopped spinach**
- **1 cup sliced green pepper**
- **1 1/2 tablespoons chopped onion**

**Sprinkle** over greens
- **3 tablespoons olive oil**
- **1 1/2 teaspoons salt**
- **1/4 teaspoon pepper**

**Toss** together lightly.

**Add** .... **1 1/2 tablespoons tarragon vinegar** just before serving

**Toss** again lightly.

—*Mrs. Edwin R. Suggs, New York*

# New rhubarb recipes

**"Rhubarb's never tasted so good!" And you'll say so, too, once you've tried these recipes**

***Rhubarb Butter Crunch***

Serves 6

**Combine**
- **3 cups diced fresh rhubarb**
- **1 cup sugar**
- **3 tablespoons flour**

**Place** in greased, 6x10-inch baking dish.

**Combine**
- **1 cup brown sugar**
- **1 cup raw rolled oats**
- **1 1/2 cups flour**

**Cut in** .... **1/2 cup butter**
- **1/2 cup other shortening**

**Sprinkle** over rhubarb mixture.

**Bake** at 375° (moderate) 40 minutes.

**Serve** warm with cream.

—*Mrs. Florence Neeley, Iowa*

***Strawberry-Rhubarb Salad***

Serves 6

**Combine 2 cups rhubarb,** cut in 1/2-inch pieces
- **1/3 cup sugar**
- **3/4 cup water**

**Cook** slowly until just tender.

**Sweeten** . **2 cups sliced strawberries** with
- **2/3 cup sugar**

**Soften** .... **2 tablespoons unflavored gelatine** in
- **1/4 cup cold water**

**Dissolve** gelatine in hot rhubarb mixture.

**Add** the strawberries and
- **1 1/2 tablespoons lemon juice**

**Chill** until slightly thickened.

**Pour** into molds; chill until firm.

**Unmold** on **drained pineapple rings** on **crisp lettuce leaves**

**Pass mayonnaise.**

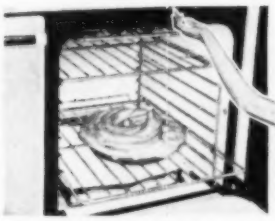
—*Mrs. Kenneth Jobe, Indiana*

# Here's that EXCITING NEW ELECTRIC RANGE

## women are raving about from coast to coast!

## And no wonder! Just see what it does for you!

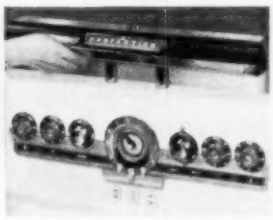
**A deep-well with a magic elevator!** When you raise the handy deep-well, the fourth heating unit automatically *comes up with it!* You don't "dig down" for it or wait for it to cool to have an extra surface unit! This versatile deep-well also has a rack, a pudding pan and a deep-fat fry basket!



**Gleaming-white oven — easiest-to-clean in the world!** Rounded corners, removable racks *and rack-guides* give a surface as easy to clean as the inside of a mixing bowl! Bakes so evenly—no need to shift food from one rack to another! Has a handy-height, full-power broiler, too!

**Here's a warming drawer to "warm a lady's heart"!** Thermostat-controlled—just like an oven! No more worry about everything being done at the same time! If one dish is ready before the others, you can still serve them *all* piping hot! And it's big enough for dishes, platters and the food!

**Lightning-fast, heating units!** In a mere matter of seconds these speed-packed units become red-hot! Each gives you *seven* speeds controlled by *one* simple dial! Certain dial-settings heat *only* the *center* coils for small pans. Saves electricity! And, these units *clean themselves* as you cook!



**Just the lamp you've waited for!** When you want to see "what's cooking", you slide this handy fluorescent lamp up . . . when through cooking, slide it down, where it blends beautifully with the modern lines of the range! It adjusts with fingertip pressure . . . and *stays* in any position!

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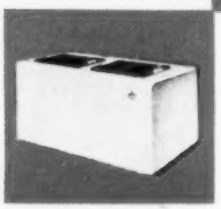
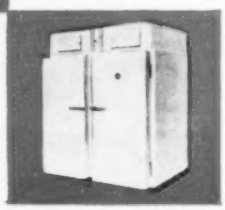
## EASY PAYMENTS

**BELOW:** Model F-100 De Laval Speedway Food Freezer has famous De Laval "Cold-Saver" lids, fast freezing compartment and many other exclusive features. 16½ cu. ft. capacity—650 lbs. of frozen food.

**BELOW:** Model F-200 De Laval Speedway Food Freezer has "Inner-Sealed" locker drawers on one side and separate-door compartments on the other. 35 cu. ft. capacity—1350 lbs. of frozen food.



**ABOVE:** Model F-80 De Laval Speedway Food Freezer has 8 cu. ft. capacity but the same outside dimensions as a 4½ cu. ft. cabinet. More capacity—less space. Holds up to 280 lbs. of frozen food.



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☐ Model F-100 Speedway Food Freezer (16½ cu. ft.)
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Name _____
Town _____ RFD _____ State _____


## Good May fare

[ *From page 43* ]

**Pour** over chicken and vegetables.
**Sprinkle.** **2 tablespoons melted butter** over
**1½ cups corn flakes**
**Toss** lightly; sprinkle over tops of casseroles.
**Bake** at 500° (hot oven) 10 to 15 minutes.
**Garnish** each with a **thin slice green pepper.**

### *Pimiento Lamb Loaves*

Makes 6 casseroles

**Soak** . . . . . **3 cups soft bread crumbs** in
**2 cups milk**
**Add** . . . . . **1½ pounds lean ground lamb**
**¼ cup grated onion**
**1 cup cooked peas**
**1½ teaspoons salt**
**¼ teaspoon pepper**
**2 tablespoons chopped parsley**
**¼ cup chopped green pepper**
**1 small clove garlic,** finely chopped
**1 teaspoon Worcestershire sauce**
**1 bay leaf,** finely crumbled
**Mix** well.
**Combine** in separate bowl
**1½ cups cooked rice**
**1 egg,** well beaten
**salt** and **pepper** to taste
**Drain** . . . . **6 large canned red pimiento pods**
**Fill** with rice mixture.
**Fill** greased casseroles ½ inch with meat mixture.
**Center** a stuffed pimiento in each casserole; pack remaining meat around pimiento.
**Bake** at 300° (slow oven) 1¼ hours.

### *Chicken Paprika*

Serves 4 to 6

**Cut** . . . . . **3 to 3½ pound chicken** into serving pieces
**Dredge** in
**⅓ cup flour**
**1 teaspoon salt**
**⅛ teaspoon pepper**
**Brown** in **¼ cup fat**
**Set** chicken aside.
**Cook** . . . . **½ cup finely chopped onion** in fat until transparent
**Replace** chicken.
**Sprinkle** with
**1 tablespoon paprika**
**Add** any remaining flour and
**2 to 3 tablespoons water**
**Cover** tightly and cook until tender, about 45 to 60 minutes.
**Add** more water in tablespoon amounts, if necessary.
**Remove** chicken to hot serving platter; keep hot.
**Add** . . . . . **2 tablespoons flour** to pan drippings
**Blend** well.
**Add** . . . . **2 cups sour cream**
**Cook,** stirring constantly, until gravy is thickened.
**Simmer** covered 5 minutes.
**Add** . . . . **1 tablespoon lemon juice**
**grated rind of 1 lemon**
**Season** with **salt** and **pepper** to taste.
**Serve** gravy in side dish.

***Irish Lamb Stew***

Serves 6 to 8

**Marinate 2 pounds lean lamb,** cut in 2-inch cubes, in
**¼ cup salad oil**
**2 tablespoons vinegar**
**1 teaspoon salt**
**⅛ teaspoon pepper**
**1 teaspoon onion juice**
**Leave** in refrigerator 1 hour.
**Drain off** and save oil dressing.
**Dredge** lamb cubes in
**¼ cup flour**
**Brown** well in
**2 tablespoons fat**
**Add** oil dressing and
**3 cups boiling water**
**Cook** slowly 1 hour.
**Add** . . . . . **1½ cups small whole onions**
**1 cup diced white turnips**
**3 medium-sized carrots,** cut lengthwise, or **6 to 8 small whole carrots**
**1 teaspoon salt**
**Cook** slowly until vegetables are tender, about 20 minutes.
**Add** . . . . . **2 cups cooked green beans**
**Cook** until mixture is piping hot, about 10 minutes. Serve at once.

---

## Memorial Day

Now we are come from countryside
and town,
From grassy valley and from
templed hill,
To lay our fragrant burdens humbly
down
Upon the mounds, where, mystically
still,
Their dust returned to mingle with the
sod
From whence it came; our honored
dead now sleep
And dream, while all around the
shadows nod,
Of trusts and visions they gave to us
to keep.
Let us resolve they have not died in
vain;
Let us, too, see the glory and be true
To what they glimpsed beyond the
leaden rain;
Lo, let us kneel and bravely vow
anew
That Moloch is no more, that war
shall cease,
That Christ shall walk the world
with Love and Peace!

—*Edgar Daniel Kramer*

## Spring cleaning

After the smoke of the winter,
Open the windows wide,
Let the wind and the sunshine
Have their way inside.
Hang out the quilts and the blankets,
Spread the rugs on the grass,
Let the fragrant breezes
Perfume the n as they pass.

Stand with your faces skyward—
Women with homes to tend
Need the heights for companions,
The out-of-doors for a friend.
If you would bring to your labor
Joy, and the lilt of praise,
Go gather the freshness of sunshine,
The cleanness of wind for your days.

—*Grace Noll Crowell*

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with this shining Dutch Oven that takes low-cost cuts and makes them delicious as choicest cuts.
4½ qt., $6.95.

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| 12-cup... | 3.50 | 12-cup... | 4.50 |
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## Who says 85 acres aren't enough?

[ *From page 39* ]

"Fine, fine," you say, "but you still haven't told me how they do it!" I will.

At the moment, I'd like to point out that at the Hayners', as at all places where folks farm as a family, the homemaker comes in for heaping credit. Take that new house. The kitchen work area is just as efficient in its arrangement as is Sid's milkhouse and small bottling plant. Though the floor plans for the entire house were worked out by Mr. and Mrs. Hayner to meet their particular needs, we felt those plans had so much farm-home sense in them that they were worth passing along. (See below.)

The wash-up lavatory right inside the back door of the new home is a good idea. The ample closet space there is another. Both are placed so that Mr. Hayner, the children, and the farm helpers can clean up before entering the house itself. The kitchen needs no extra comment because you women readers will see at a glance that Mrs. Hayner planned it along the lines of the most work in the shortest time.

I do want to mention the den-office, however—a practical "must" for a commercial dairyman. There all business papers and dairy records (they're breeding up the herd) are within reach of the farm's business visitors. Again without tracking through the living areas of the house.

About the only criticism *Successful Farming* makes of these home-drawn plans is that a central hall might have solved the living-room traffic problem. To this criticism, Mrs. Hayner replies: "I detest halls and cleaning them. It seems like a waste of space to me. I would much rather have that space in the living room. I don't *mind* the traffic through the living room."

So there you have it, an honest difference of architectural opinion, with the decision going to the housewife who, after all, has to live in the house.

Now, the "how" of Hayner's farming that I mentioned a moment ago is so simple you may not believe it: Sid credits all of his land-use success to three tons of lime to the acre (pastures and all) every few years and to the almost daily application of barnyard manure. The barnlots and loafing yard lots are concreted so that a tractor scoop does the hard work on that job.

Hayner says that without his herd of some 50 dairy animals, he'd have to go to commercial fertilizer. (And he strongly recommends commercial fertilizer for all farms in his particular Missouri area where large numbers of livestock are not kept. He and his neighboring Missouri farmers in the Marshall area have been downright smart about studying land-use problems. The businessmen talk about them, too. In fact, you have in Marshall a community that knows where it's going and is well on the way.)

Hayner also opines that putting on plenty of organic matter and nitrogenous fertilizer, plus lime, will allow a good rotation on almost *any* land, no matter how worn out. He's very definite on that as a universal cure-all for sick farms. His own rotation goes corn 1; oats 1; lespedeza or clover 2. (He tried sorgo instead of silage corn one year and his Guernseys and Jerseys didn't like it.)

Sid has only 45 acres in cultivation at any one time. Yet remember the yields he gets from them? His is a sort of self-imposed acreage restriction, really. He'd like to get his hands on another 40 or so, and someday maybe he will. But right now he's an encouraging example to those of us fussing about what acreage allotments may do.

Dairy-wise, the Hayners think their type of business is ideal for raising a family and for family cooperation on the farm. They're only a mile out of Marshall, with a good school system and a good college —Missouri Valley College. John Alan Hayner, now 10 years old and with a definite interest in school systems, puts in his spare time helping Dad and his assistant to process the milk. Anita Louise, 3, has exhibited a lively interest in all things agricultural. She'll be expected to do her share in a couple of years.

All milk is bottled at the farm for a bacteria count of 6,000 and a cream test of 5.6. After the milk is bottled, it is placed in neighborhood stores for distribution. The Hayners find this plan much easier than a house-to-house route. It is cash-over-the-counter every day and eliminates collecting—a big job. Also it

[ *Turn to page 62*

**Their house** was built by using some of the lumber taken from the former home. Note how well the Hayners have provided for those activities of farm living which need special planning. They drew the plans themselves

**For exterior of home, turn to page 38**

# PONTIAC—

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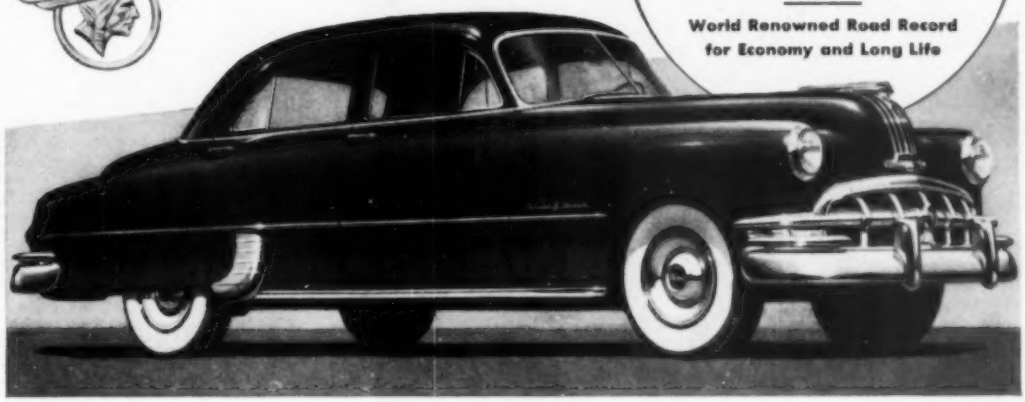

You can compare Pontiac, feature for feature, with any new car on the market and quickly discover why everybody is saying "Dollar for dollar, you can't beat a Pontiac!"

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## Who says 85 acres aren't enough?

[ *From page 60* ]

cuts out bottle shortage because the retailing merchants foot the bill when bottles are broken or misplaced by customers. As a final and clinching argument, the Hayner system eliminates a Sunday route.

Another reason the Hayners can do what most dairymen say they can't—get away—is found in the 6-stall milking parlor and the big loafing barn which Sid put together out of the existing buildings when he took the farm over. He and his helper claim they have cut a couple of hours a day from their milking schedule with the new parlor setup and the streamlined milkhouse and bottling room.

"Getting away," to the Hayners, mostly means driving down to the Lake of the Ozarks—80 miles—and going fishing or just riding in their inboard motorboat. It's not a large launch nor a too-fancy one, but it whips out into the cool lake breezes, it reaches the farthest fishing holes in a short time, and it packs a lot of picnic lunch. It allows the Hayners to vacation as they work—*together*.

The Hayners just didn't dream their living philosophy up out of thin air. Between the time Sid left his dad's small farm and the time he returned to Marshall (both he and Mrs. Hayner were born in that community), he took a turn out on the West Coast, training to be a Diesel engineer. Mrs. Hayner was out there with him. But instead of going to California to live out the rest of their lives as so many Midwest farmers used to do, this couple came back to live out their lives and retire on the farm. A complete reversal! Says Sid, "There's no one more independent than the farmer." He knows what he's talking about. He's tried both ways, and he prefers to set his own (long) hours and to make his own decisions.

In community work, Mr. Hayner is proud of his job as president of the Marshall Optimist Club, an outfit the main purpose of which is to do something to interest and keep interested the Marshall community's boys—through scholarships, camps, activity programs. Mrs. Hayner is an enthusiastic vice-president of the Opti-Mrs. Club, a group with the same idea as the Optimists.

You might say that Marshall doesn't have much of a boy problem (they're all typical small-town and farm kids), and why should farmers be stewing about it anyway? But if you did, you'd be forgetting that Marshall is Sid Hayner's trading center and home town. That Marshall has the same proportion of active boys, lack of things to do, and need for community understanding as does any city in our country today. That the Hayner children are going to spend evenings in Marshall with their friends; that they will go to school there. That's why Hayner is chamber of commerce man, too.

Mr. and Mrs. Hayner repeat on this point the same slogan they use in referring to their program of building their present land: "You can't take any more off than you put on." That goes for their life as neighbors and citizens as well as for their life as hard-working farmers out on the R.F.D. route. And it's a good thing for us all to remember! **END**

## Farmer's Washington

[ *From page 8* ]

and his "lobbying" for the Brannan Plan.

In the case of the housing bill, Boyle directed all local party workers in the various states to organize pressure on members of Congress. He has been doing the same thing on the Brannan Farm Plan. Party workers have been flooded with literature emphasizing two points: (1) Savings to the housewife on groceries; (2) Higher net incomes for farmers.

Specific examples are cited such as this: Unnamed Farmer X had a net income after operating expenses last year of $10,418, but under the Brannan Plan his net would have been $10,965.

**Concession.** But, while the Democratic propaganda is being spread, Secretary Brannan is reported in a mood to make some concessions on his famous plan. Some observers think he may endorse a proposal to make farmers pay part of the cost: something like a marketing fee or a tax on sales. This would be intended to meet the criticism that the farmer's income was too dependent on congressional appropriations from year to year (they might run into an unfriendly Congress), and to relieve the income-tax payers somewhat. The idea is old and has something in common with the old processing tax. Congressional experts doubt if it would be accepted there.

**"Wet" corn.** Illinois has a "wet" corn problem. Commodity Credit Corporation extimates that 10 million bushels under storage in Illinois has a moisture content of 15 percent or more and won't keep long without serious damage.

C.C.C. plans to move this corn into export as quickly as possible, with some sold for local feeding. There are small quantities of "wet" corn in Indiana, Ohio, and Missouri, but it is not a problem in Iowa, Kansas, Minnesota, or Nebraska.

**Brannan test.** Iowa has been made the testing ground of the popularity of the Brannan Plan. That is the way the political situation in the big corn state is seen from Washington, now that Undersecretary of Agriculture Albert J. Loveland has gotten into the race for the Democratic senatorial nomination.

Loveland was not keen about running. Brannan wanted him to run, and President Truman said it was O.K. with him.

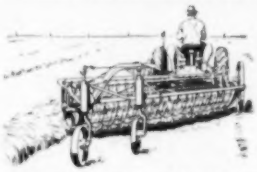
Democratic Senator Guy M. Gillette ran for cover. He said he couldn't take part in the primary, added cautiously that he is ready to give the Brannan Plan a hearing, "not antagonistically, but a fair hearing."

If Loveland wins, Washington political observers believe the effect will be very strong in Washington.

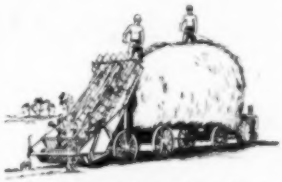
On the other hand, if Loveland is beaten, the Brannan Plan will be sunk. Brannan knows this, was willing to run the risk. If Loveland wins nomination he probably will face Republican Senator Bourke B. Hickenlooper, an open opponent of the Brannan Plan. Everybody in the administration will be in the act in that race, from President Truman down.

The other big political fight in the Midwest involves the Senate majority leader, Scott Lucas of Illinois. He is a Brannan Plan opponent. END


# Make Better Hay Easier-Faster



With a 4-bar cylinder, the Massey-Harris No. 11 Side Delivery Rake is built for big capacity at fast tractor speeds.



The Massey-Harris No. 8 Loader is famous for handling hay gently, an important factor in making high quality hay.

The Massey-Harris Forage Clipper cuts, chops, loads any grass or legume crop in one, easy, time-and labor-saving operation. (Shown with windrow pick-up attachment.)

THE Massey-Harris No. 6 Mower cuts more than hay — it likewise cuts mowing-time and hay-making costs.

With its two caster wheels, one on either side, the No. 6 is literally a contour mower. It hugs the ground to do more uniform work . . . to cover more acres . . . to do a cleaner job of cutting . . . and with longer life for the cutter bar, pitman, bearings, and drive shaft.

Of welded tubular construction, the No. 6 is ruggedly built. Husky roller bearings in the right places make it a lighter running, longer lasting mower. Guarded with safety shields, and an automatic safety release, it's as safe as a mower can be made. And you'll find it easy to attach and detach.

See your Massey-Harris dealer for all the facts about the No. 6 — in 6 and 7 foot sizes. Ask him for a copy of the latest folder on all Massey-Harris Hay tools, or, use the coupon below.

*Make it a Massey-Harris*

**THE MASSEY-HARRIS COMPANY**
**Quality Ave., Racine, Wis., Dept. E-110**
Please send me a copy of your latest catalog on Massey-Harris Hay Tools.

Name.....
Please Print
Town.....R.F.D.....
County.....State.....

**Designed with one thought in mind... to give you the**

**world's most comfortable work shoe**

Style 1131. Goodyear welt. Moulded Back. "Vul-Cork" sole and heel.

You couldn't step into a more comfortable shoe than this plain toe blucher. Cedar-Crest built it specially for your utmost satisfaction — inserted a long cushion heel pad for extra support and ease — moulded the back in one piece so there are no seams to irritate your foot or rip and require repair. Instead of an ordinary tongue there's a Genuine Horsehide gusset to keep dirt and dust from sifting into the shoe. The thick non-skid sole and heel give you longer wear and greater protection. All this at a moderate price! See your local Cedar-Crest dealer today.

Cedar-Crest SERVICE SHOES

EXTRA LONG WEAR WITH COMFORT TO SPARE

CEDAR-CREST SHOE COMPANY
DIV. OF GENERAL SHOE CORPORATION
NASHVILLE, TENNESSEE

Successful

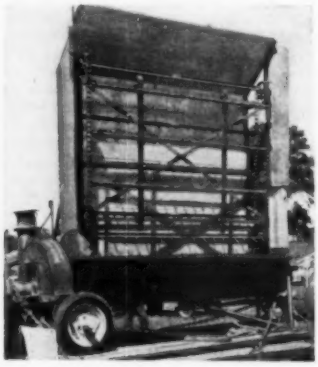
# SHORT CUTS

**Build them yourself, save time and dollars**

**Clamp holds sickle** for sharpening on Harry Scheiwe farm, Iroquois County, Illinois. Flexible shaft, with small chuck grinder attached, sharpens sickle sections quickly

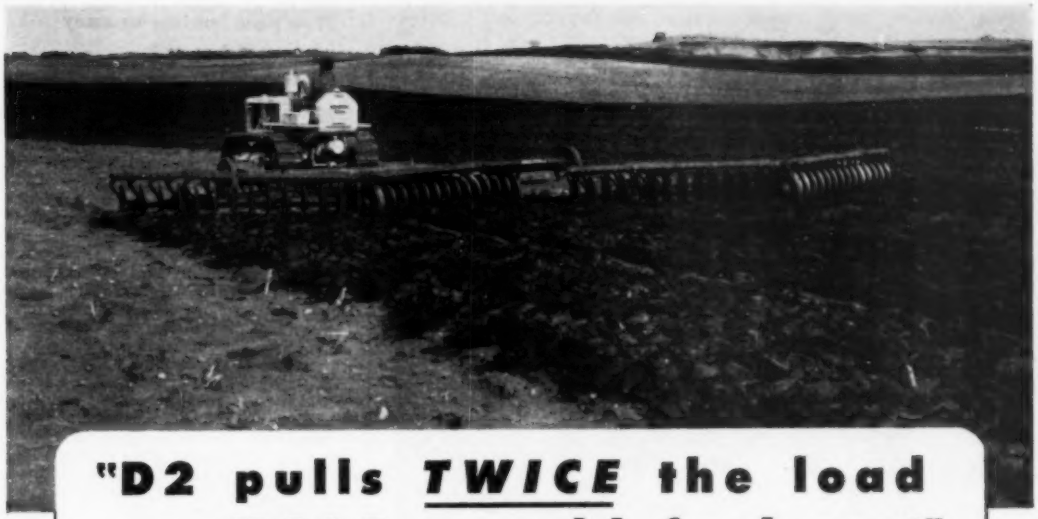
**Man-sized mailbox** keeps packages high and dry for R. J. Chitty, Story County, Iowa. The open end of this oil-drum auxiliary box could be fitted with hanging door, if needed

**Pitman guard,** built of curved strips of metal welded together, protects Ralph La Pierre's mower, Hillsborough County, New Hampshire, from damage by rocks or stumps



**Chopped hay unloader** has toothed slats on endless chain. They run from top to bottom at rear of load, feeding chopped material into blower. Indiana's Sam Walker built it

**Egg-laying sections** attached to range shelters have proved successful for George W. Triska, Henry County, Iowa. He reports that, since these nests have been added, his pullets learn the habit of laying in nests, even while they are still on the range



# "D2 pulls *TWICE* the load on *HALF* my old fuel cost"

... BEN M. TROUT, TRACY, MINNESOTA

*The hitch of two 15-foot single disks means 90 acres of good tillage in 10 hours, behind this D2. Ben Trout, Tracy, Minnesota, (inset) reports a fuel cost under 30c an hour for his D2.*

▶ When Ben M. Trout, Tracy, Minnesota, hitches his 4-plow Diesel D2 to *two* 15′ single disks, big things start to happen, profitwise!

First off, his D2 scampers along at third speed to disk a 40-acre field in only 4½ hours. His 2-plow gasoline tractor and a horse quartet took a big day to do *as much, not as well!*

Next, his D2's fuel cost is less than 30c hourly. Next, the D2's broad tracks do not pack the soil to reduce yield or induce erosion. And the D2's traction-backed bonus of drawbar pull speeds seedbed preparation—to plant crops on their favorite hour!

*"My D2 pulls twice as big a load as my old tractor, on about one-half the fuel cost," states Mr. Trout. "No pain, no strain, no worries—no steering wheel to fight. You just watch the acres go by."*

Wouldn't you like to sample such satisfaction (and profit advantages) as "Caterpillar" Diesel Tractors deliver? See your "Caterpillar" Dealer about an early demonstration of the size you need.

### Compare Price—Compare Value

Price of the 50-inch gauge Diesel D2 is $3,415.00, f.o.b. Peoria, Illinois. (Price subject to change, without notice.) That figures to only $854 per plow bottom of capacity. Compare D2 price to any other tractor's, on this basis. Then compare performance, operating thrift, bonus years of tractor life. Compare value.

*CATERPILLAR TRACTOR CO., PEORIA, ILLINOIS*

# CATERPILLAR

REG. U. S. PAT. OFF.

## *Diesel Farm Tractors*

DIESEL ENGINES • TRACTORS • MOTOR GRADERS • EARTHMOVING EQUIPMENT

STAY THRIFTY

Dirt-Proof

Your Engine Oil

How long has it been since you replaced the *element* in the oil filter on your tractor, truck, or car? For the sake of your pocketbook, as well as for better performance, remove the old filter element and put in a brand new AC.

You will gain two ways: *First*, you will "Dirt-Proof" your engine oil, which means positive protection against the gummy, gritty sludge in your engine oil which clogs and scratches piston rings, valves, and bearings. *Second*, you will enjoy better all-around engine performance.

Your farm machinery—your truck—your car—all have busy days ahead. Keep them fit . . . and save money, too.

Here's Proof OF "DIRT-PROOF"

More than a pound of sludge, dirt, and grit were removed from oil in 5,000 miles of normal *city* driving. The element was an AC.

HOW YOUR OIL Gets Dirty

Dust is picked up from the road. Metal particles wear off of moving parts. Oil spray oxidizes in the crankcase. Soot and water are produced by burning gases, some of which blow by the piston rings. Water emulsifies with dirt and oil to form sludge. Heat may form gum and varnish.

"Dirt-Proof" your oil as you drive, with an AC Oil Filter or Element.

AC OIL FILTERS

AC SPARK PLUG DIVISION • GENERAL MOTORS CORPORATION

## Are you losing money on machinery?

[ *From page 47* ]

year. Larger farms (up to 200 acres of crops) can be operated with one tractor. But a second tractor becomes a profitable investment when one has 1,000 hours of tractor work to perform. A low-cost way of getting belt power for running blowers and elevators at harvesting time is to buy an old tractor at a nominal price.

**Land preparation and cultivating equipment.** Each farmer should plan to own his own plow, disc, field cultivator (if needed), harrow, and corn cultivator. Except on the smallest farms, the plow should be a 2-bottom 14″ or 16″ plow. A 7′ tandem disc—or the equivalent in a straight disc—and a 4-section harrow, and a 2-row cultivator are recommended as standard minimum equipment.

Where quackgrass is a problem, a 7′ field cultivator should be a part of the standard equipment. Each piece of this equipment will only be used from 2 to 10 days a year on the average farm.

**Fertilizer-grain drill.** The Farmers in most of the humid sections of the United States will increase their small-grain yields by the use of fertilizer at the time of seeding. Fertilizer applications at this time also increase the stands and yields of new grass and legume seedings.

Yet a fertilizer-grain drill costs from $500 to $750. We recommend a 13-7″ fertilizer-grain drill as an efficient machine for the family farm. But it will only be used 2 to 5 days a year on the average farm, with 20 to 50 acres of small grain. Find more work for it, if you can.

Through exchange with neighbors, the fertilizer-grain drill should be used to seed a minimum of 75 acres of small grain each year. By careful planning and cooperation, a 13-7″ fertilizer-grain drill is adequate for seeding 75 to 100 acres of small grain each year.

**Two-row tractor corn planter.** Old horse-drawn planters can be converted for tractor operation. But a new tractor planter with fertilizer attachment has many advantages. It is not such an expensive machine as a fertilizer-grain drill, and for this reason the cost will not be excessive for smaller acreages.

The average family farm has use for a corn planter only 2 to 4 days a year. One can put up with considerable inconvenience with the old planter rather than to make an investment of $250 to $300 to be used such a short time each year. But if you do not have and cannot get a fertilizer attachment for your old planter, it may pay you to buy a new tractor corn planter with fertilizer attachment.

To keep down per-acre planting costs, arrangements should be made to plant at least one neighbor's corn with the new planter. A 2-row tractor corn planter is adequate for planting 80 to 100 acres of corn.

**Mower and side-delivery rake.** You will want to have your own mower and side-delivery rake. Although these machines are used only 3 to 5 days a year on the average farm, they are used for such short periods at a time—often as little as 1 to 2 hours—that either exchange arrangements or custom hiring is impractical.

**Field forage harvester.** Small field forage harvesters are now available at a cost of around $1,700, including the blower. This machine can be used to harvest grass silage, dry hay, straw (following the combine), and corn silage. Used in this way, it will replace the hay loader, corn binder, and silage cutter.

For most efficient operation, each field forage harvester should have a string of two or three mechanical unloading wagons, and a wagon-unloading drive and power unit.

Our first reaction is that this equipment is too expensive for the family farm. But this machine will handle the hay, straw, and silage harvesting jobs on *three* family farms. If three farmers bought new, conventional machinery to harvest their hay and silage, they would have as large a total investment as if they jointly bought the forage harvester and mechanical unloading wagons.

Three farmers—if they can pool their investment or allow one farmer to own the equipment and do the work on a custom basis—can utilize this new labor-saving machinery at no increase in cost over similar new conventional machinery—and at a saving of 8 to 15 days of labor on each of the three farms.

A critical consideration is the quality of the chopped hay vs. long hay. Chopping hay will not improve its quality, but neither will it decrease the quality if it is cut in relatively long lengths, after properly curing in the field.

**Combine harvester.** A 5-foot combine will harvest 30 to 50 acres of small grain in 3 to 5 days. This machine will cost around $1,600. It is too expensive to use only 3 to 5 days a year. But, in the usual season, small grain can be combined over a period of 10 to 15 days without risking harvesting losses. Each combine should be used on a minimum of 80 acres, and can be safely scheduled to harvest 100 acres a year. This means that the combine must be used on three to four farms each year to avoid excessive costs.

**Cornpicker.** The cornpicker, when fully utilized, saves more man labor than any of the other harvesting machines. You can pick 4 to 8 acres of corn a day with a single-row picker. Thus, the average farm with 30 to 50 acres of corn to be picked from the standing stalk has 5 to 8 days' work for a cornpicker. The cornpicking season normally lasts 15 to 21 days. Each single-row cornpicker should be scheduled to pick 75 to 90 acres of corn, to cut per-acre costs.

[ *Turn to page 68*

SUCCESSFUL FARMING

"Not exactly the mutton type, but who are we to complain?"


For Enduring Satisfaction—Use

Pittsburgh Paints

Because They LOOK BETTER

. . . cost less in the long run

THOUSANDS upon thousands of farm folks turn each year to Pittsburgh Paints because they have learned by experience that an investment in better paint saves money in the long run.

● They know Pittsburgh Paints go on without brushmarks, cover thoroughly, dry quickly and leave a uniform paint film of long-lasting *live-paint protection.*

● Pittsburgh Paints stay tough and elastic so long because the special *"Vitolized Oils"* they contain remain in the paint film instead of being absorbed into the surface. This film expands and contracts readily with temperature changes. It will not crack or peel as easily as ordinary paints.

There's A Pittsburgh Paint For Every Farm Need

**SUN-PROOF HOUSE PAINT**—Will not darken or discolor from coal smoke or sulphurous gases because it's fume-proof and self-cleaning.

**WALLHIDE WALL PAINT**—Oil-base wall paint that covers with one coat. Flat, semi- and gloss finishes.

**FLORHIDE FLOOR ENAMEL**—For wood, cement or metal floors and steps.

**WATERSPAR ENAMEL**—A superior household enamel for furniture, woodwork and metal trim.

**FARM MACHINERY & EQUIPMENT ENAMEL**—Leaves no brush marks. Dries dust-free in several hours. Resists abrasion. Retains color and gloss. Colors to match original finish.

Free Booklet on COLOR DYNAMICS

● Ask your Pittsburgh dealer for a FREE copy of *"Color Dynamics* for Your Home." Or send coupon.
**Pittsburgh Plate Glass Co., Paint Div.**
**Dept. SF-50, Pittsburgh 22, Pa.**
Please send me a free copy of your new booklet, "COLOR DYNAMICS for Your Home."

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PITTSBURGH PAINTS

PAINTS • GLASS • CHEMICALS • BRUSHES • PLASTICS

PITTSBURGH PLATE GLASS COMPANY

"WHEAT IS MY MAIN CROP . . .

# I can't afford breakdowns at Planting Time"

**RICHARD R. BIRD**
*Anthony, Kansas.*

**He knows why it pays to use Phillips 66 Premium Motor Oil!**

Richard Bird's principal crop is wheat . . . 600 acres of it! Delays due to machinery failure at planting or harvesting time could be very costly to him. So, in his tractors, and in his self-propelled combine, he uses Phillips *66* Premium Motor Oil. "It helps keep my engines in really fine condition," says Mr. Bird.

## GET "*Lubri-tection*"!

**Phillips 66 Premium Motor Oil provides Lubrication *plus* Engine Protection!**

The motor oil that Richard Bird uses in his tractors and combine does *more* than just *lubricate*. With Phillips *66* Premium Motor Oil he gets *engine protection*, too. The name for this money-saving combination is "Lubri-tection."

Phillips *66* Premium Motor Oil contains valuable additives which resist the accumulation of sludge and varnish, and so help prevent excessive wear and loss of power. "Lubri-tection" will pay its way on *your* farm, too! Get Phillips *66* Premium Motor Oil from your Phillips *66* Dealer or Tank Truck Salesman.

**PHILLIPS 66 TRACTOR TIRES—Built for Long Life**

You get the combined advantages of sturdy construction and scientific tread design when you choose Phillips *66* Tractor Tires. Get them from your Phillips *66* Dealer or Tank Truck Salesman.

**PHILLIPS 66 PREMIUM MOTOR OIL**

*Listen to the Rex Allen Show Every Friday Night Over C.B.S. at 9 P. M. Central Standard Time*

## Are you losing money on machinery?

[ *From page 67* ]

**Hay baler.** The hay baler is usually bought by farmers who expect to do custom work, in addition to baling their own hay. Small automatic pickup or field balers are now available at a cost of around $1,200. A small baler has a seasonal capacity of around 5,000 to 8,000 bales a year. The average farmer may have 2,000 to 2,500 bales of hay and straw to harvest each year. Thus even the smallest balers should be used on two to three farms, if you want to keep costs down.

In spite of its popularity, the hay baler is one of the least economical harvesting machines. Because the bales usually are handled by hand when hay is baled from the windrow, only half an hour of man labor is saved per ton over the usual loose-hay harvesting methods.

**Other machines.** Operators of larger farms may want to consider buying larger units of equipment or additional items. The same method of analysis should be used in considering the purchase of a weed sprayer, a mechanical dairy barn cleaner, an automatic silage unloader, and many other new units of equipment now available. Do you have enough of a job for it to do on your farm to make it a profitable investment? If not, can you arrange with neighbors to fully utilize the machine?

You can afford modern machinery if you can fully utilize it. But excessive machinery costs result from buying too much machinery to do too small a job.

The annual cost of depreciation, repairs, interest on investment, and housing ranges from 10 to 15 percent of the purchase price for farm machinery. If you are considering buying a $1,000 machine, be sure you have $100 to $150 worth of work for it every year. **END**

## Two-story laying house

This two-story laying house on the Avery Woody farm, Monroe, Iowa, is a laborsaver in more ways than one

The 20'x30' laying house has built-in feed storage at the head of the stairs on the second floor and another feed room outside the entrance to the house. A water hydrant is also located outside the entrance to the house.

Four roof ventilators with connecting air chutes keep litter dry and warm. The air chutes extend down through both floors. Eight windows on each floor let in sunlight.—*V. W. Schultz.*

## it doesn't take a FORTUNE to get security

Envy the man who has an oil field a few thousand feet under his winter wheat? He has one type of security, no doubt about that, and you'd be right to count him as a lucky and enviable individual.

But a full measure of security that is sound and adequate is available to the average man with an income, too, fortune or no fortune.

For a few dollars a month you can enjoy the solid financial security produced by the pooled resources of millions of people like yourself.

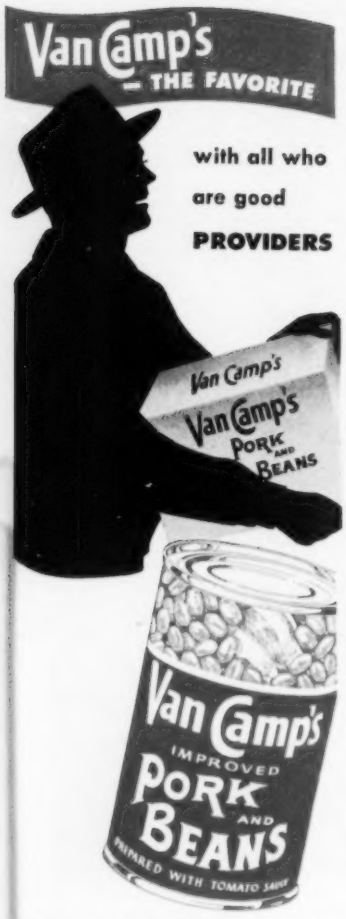
It would take an oil field of 2,000,000,000 barrels to give the equivalent of resources that are cooperatively pooled in The Equitable Society. And every member of the Society shares in the protection these resources offer.

The financial protection provided by life insurance and annuities is available to your family and every family with foresight enough to plan their future. It's the kind of security your family should not be without.

**THE EQUITABLE LIFE ASSURANCE SOCIETY OF THE UNITED STATES**

THOMAS I. PARKINSON · PRESIDENT

393 SEVENTH AVENUE • NEW YORK 1, NEW YORK




It is an old American measure of success to provide well for the family . . . to give them good food and plenty of it. Nowhere is it more of a mark of achievement than on the farms, for where good food is grown, there it is known and enjoyed.

So it is natural that folks on the farm should be among our most loyal customers . . . buyers of **Van Camp's** by the dozen, by the case...for to them there are no better pork and beans . . . none with a richer and more abundant sauce... none with pork so sweet and tender.

For three generations women on the farms have been saving money . . . saving work . . . providing their families with delicious, nourishing, appetizing food by serving **Van Camp's** often. Today...more than ever...with them...as with all who know good food...**Van Camp's is the favorite . . . America's No. 1 Bean.**

**IT'S Van Camp's FOR *flavor* THROUGH and THROUGH**


# Stepchild kitchen brought to life

**By Louise Price Bell**

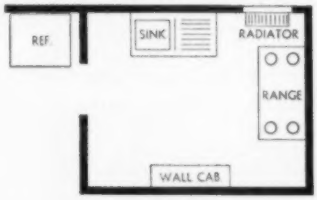
Here's a kitchen that makes up in efficiency what it lacks in space. Rather than spending their hard-earned dollars for more space, this couple decided they would get a greater return from investing their money in spacesaving equipment.

Instead of trying to repair the badly cracked and stained plaster walls, they covered the walls with a good-looking, marbelized wall tile that is stainproof and easily cleaned. New pieces of equipment were installed in the same locations as the old sink and range to save cost of new plumbing hookups.

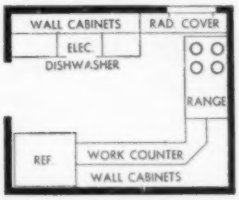
To save both money and space, a combination automatic dishwasher and laundry unit was installed in place of the old sink. Now the kitchen is used as a utility room, too. The addition of three storage cabinets over the sink and three over the work counter on the opposite wall, plus the storage below, gives the family ample work area and cabinet space.

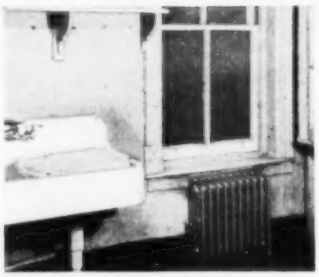
To liven up the stark whiteness of the equipment and wall tile, bright red tapes are used on the Venetian blinds at the window. Red geraniums bloom along the sill above the radiator; then the same bright red is repeated in the enamel cooking utensils and checkered dish towels. They all do their part to add a cheery outlook to the shiny new kitchen.

**Before**




**After**



**Before.** Badly cracked plaster walls, old window woodwork, and the ungainly sink made this kitchen as unattractive as it was inefficient. There was no work area at all

**After.** Plumbing costs were cut by installing new gas range and new dishwasher unit in same locations as old equipment. The wide window sill is used as shelf for plants

**Before.** Opposite wall of the kitchen had little to boast of before remodeling. Old cabinets were small and unattractive, and much of wall space was completely wasted

**After.** New wall and base cabinets made a world of difference in both looks and efficiency. Every inch of wall space is put to use by storage and work counter cabinets. END

**they do more . . . hold more . . . save more—that's why farm families want them!**

# INTERNATIONAL HARVESTER REFRIGERATORS

## . . . they're *femineered!*

**WOMEN DREAMED THEM . . .**
**HOME ECONOMISTS PLANNED THEM**

***Outside***

Exclusive "Shadowline" styling; tapered, full length door. No dustcatchers—they're easy to clean, splendid to see!

***Inside***

Mighty 9.2 cu. ft. model; features include *"Pantry-Dor,"* cold from top to bottom, "Diffuse-O-Lite," 50 pound freezer locker, *stainless-steel shelves.*

**SIX MODELS—SIX SIZES—FOR FAMILIES OF 2 TO 10**

**Six different models,** and each so perfect you'll find it hard to choose! See them all—from 7.4 to 9.5 cu. ft. capacity—a size and model for *every family!* Let your IH dealer show you the many quality features including porcelain enameled interiors . . . "Shadowline" full-length doors. All models have bottle opener . . . "Tight-Wad" unit—5-yr. warranty permanently attached to the cabinet . . . the same superb quality.

**Prices Start at $199.95**

**BIG 7.4 CU. FT. MODEL FITS INTO SMALLEST KITCHENS!**

Only 25 inches wide, yet the roomy 7.4 cu. ft. interior holds *enough food for a family of four!* Features include 35-lb. freezer and shelves you can arrange *24 different ways* . . . easily!

International Harvester Company
180 N. Michigan Ave., Chicago 1

**INTERNATIONAL HARVESTER**

**. . . EVERY FEATURE HAS A FUNCTION**

**IH BOTTLE-OPENER**
*Exclusive!* Permanently built-in on the door latch. IH *femineered!*

**IH "EGG-O-MAT"**
*Exclusive!* Stores 16 eggs and dispenses 1 or 2 at a time. IH *femineered!*

**IH "DIFFUSE-O-LITE"**
*Exclusive!* Illuminates entire interior, without glare. IH *femineered!*

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**International Harvester Also Builds McCormick Farm Equipment and Farmall Tractors . . . Motor Trucks . . . Industrial Power**

# Doesn't Know his own STRENGTH!

# HE'S FEELING HIS CHEERIOS!

## ...a ready-to-eat OAT CEREAL with a whale of a lot of *GO* power!

**Betty Crocker** of General Mills, America's best-known food authority, says: "For a tasty, healthful breakfast, try serving Cheerios, milk and fruit." Cheerios are so appetizing—like crunchy little doughnuts with a wonderful fresh-toasted oat flavor.

***HALL OF FUN:*** For kids! 8 funny framed pop-out pictures (easy to cut out and assemble) on 8 Cheerios boxes. Harpo Marx, Eddie Cantor, Joe E. Brown, others. Get 'em soon and hang 'em in your room!

# THE OAT CEREAL THAT NEEDS NO COOKING!

WE TAKE A PATTERN

# Springtime is blousetime

**Stitch this attractive blouse wardrobe from just *one* easy pattern**

*collar open cool cap sleeves*

1

Perk up spring suits and separate skirts with a closet of quick blouse changes. This one versatile blouse pattern boasts three basic styles, includes detachable dickey and short, jaunty tie. Vary the fabric—and the possibilities are endless.

**Fabric facts: (Size 14)**

**1.** In dainty, dressy white eyelet piqué—1¾ yards of 35-inch fabric.

**2.** In fresh, pastel cotton madras—2⅝ yards of 35-inch fabric required.

**3.** In attractive tie-silk print with a matching scarf-tie—2⅜ yards of 39-inch fabric, ½ yard for tie.

**4.** In smart navy crepe with contrast print dickey—2¼ yards of 39-inch fabric for blouse; ⅜ yard of 35-inch for the smart extra dickey.

*collar casual three-quarter sleeves*

2

3

*smart tie-scarf full-length sleeves*

*perk dickey three-quarter sleeves*

4

McCall Pattern No. 7742, shown above, is available in sizes 12, 14, 16, 18, 20 at your local pattern counter, or send 45 cents in cash to McCall Pattern Corporation, 230 Park Avenue, New York 17, N. Y.

1

**Gentler bleaching action.....**

**added protection for linens!** Your friends will not only praise your linens, but your thriftiness, too, when you launder with Clorox. For Clorox *conserves* white and color-fast cottons and linens because it's *free from caustic*, thanks to an exclusive formula protected by U. S. patent. So make your linens snowy-white, color-bright (sanitary, too) the *extra-gentle* Clorox way!

2

**Greater disinfecting efficiency...**

**added protection for health!** It's never too early for a little lady to learn about the *extra* health protection you get when you disinfect home germ centers with Clorox. For Clorox does a quicker, *better* job of disinfecting than any other product of its kind! Join the millions who use Clorox daily in routine kitchen and bathroom cleaning. Directions on label.

Copr. 1950, Clorox Chemical Co.

**CLOROX** AMERICA'S FAVORITE BLEACH AND HOUSEHOLD DISINFECTANT

**Extra-Cleaning Power loosens soil—fast!**

Here's the easiest, fastest way to have the *cleanest, whitest wash* you ever saw. Add CLIMALENE to the wash water before soap or detergent.

CLIMALENE, with its *extra-cleaning power* loosens grimy dirt, fast! White clothes, linens, towels, shirts, children's playtogs, *the entire family wash*—come whiter. Colors sparkle! No hard rubbing.

A dishpan wonder, CLIMALENE makes dishes, pots and pans *shining clean, quickly*. Grand for sparkling clean walls, woodwork, floors. Stops bathtub ring.

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**BOWLENE**
**makes toilets**
**SPARKLE**
•
**Leaves no Odor!**

50CM9


# Easy way to a lovelier figure

**What you wear on the outside shows, but what you wear underneath will determine how well you look**

The best friend a woman's figure has is a good foundation garment. Wear it to banish bulges if you're heavy, to smooth sharp hipbones if you're thin. And, if you're just right, let it refine your silhouette to make the very most of your clothes.

The right foundation garment will help you look better, feel better, and have a better figure at all times. It's a posture-helper—a good-grooming "must." Check your foundation wardrobe for the type experts recommend for you. There is a comfortable style, you'll find, exactly fitted to your individual needs.

**Figuratively speaking,** one of these three types of corsetry will do the job for you:

*The girdle* is available for all figure types. You'll find it in a wide range of materials (nylon, cotton, and rubber) with varying degrees of support—a far cry from the whalebone prisons of not so long ago. Today's girdles are comfortably tailored, run all the way from gentle, refining garments to heavier, reinforced designs for increased control.

Incidentally, the term "girdle" is now generally used to include many of the garments you may think of as "corsets." The word "corset" has come to mean those heavier garments fitted for special figure problems.

*The pantie girdle* adds extra freedom for active sportswear, gives firm support to heavy thighs. The variety of styles makes this practical for all-around wear. Teen-agers and young women have long accepted pantie girdles, but firm materials and extra molding inserts now adapt them to larger figures, too.

*The popular all-in-one* includes the brassiere and girdle action in a single garment. It gives a slimming, sleek, and continuous line; pares hips; and rules out an unflattering midriff roll.

### How to buy a foundation garment

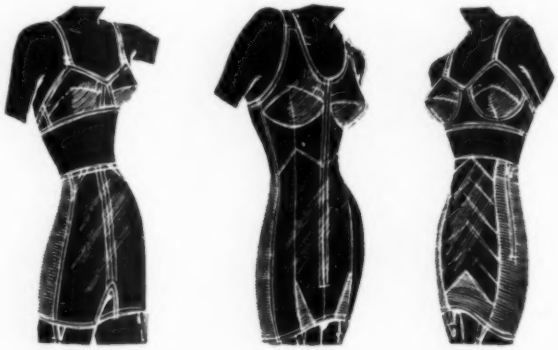
*Always try it on* with the help of an expert. A foundation must be carefully fitted to your own figure to do its proper job. Throw your modesty to the winds when you shop for foundation garments. Remember they cannot be selected accurately by eye alone.

*Sit down with it on* to be sure the boning or support panel doesn't cut your waist or thighs uncomfortably.

*Hook the garters* to your stockings to see that any needed adjustments may be made, right then and there.

*Check the length*—the most important measurement. A too-short girdle makes a bump at the hipline, a roll at the waist. If the front panel cuts your lower abdomen, it's too long; if it bulges at the abdomen, the garment is too short.

(*For "How to Wash Foundation Garments," see page 124.*)



Pantie girdle — All-in-one — Girdle

**If you are . . .**

**Just right,** you want only to "refine," not confine, so wear a lightweight foundation to give a smooth, natural look. Choose an all-in-one, if you prefer, or separate brassiere and girdle. A pantie girdle is excellent, too

**Short and slim,** a good foundation garment is a "must" for you. Wear it to hide protruding hipbones, smooth unbecoming hollows. A 2-way-stretch girdle with a flattering, lightweight brassiere provides answer

**Short and stout,** a graceful all-in-one gives the short woman a long, unbroken line; maximum control. Or wear a firm girdle with full opening front or back. Add bra that hooks to girdle, has uplift, diaphragm control

**Short and well proportioned,** a separate brassiere and girdle will do the trick for you. Be sure the brassiere has a sturdy uplift and the girdle extends 2 or 3 inches above your waist for a lengthening effect

**Tall and slim,** all-in-one foundation garments will give your figure a smooth fit that camouflages unflattering bones, helps graceful posture. Be certain that it is long enough to assure a free and easy motion

**Tall and plump,** whittle heavy midriffs with girdle built above natural waist. Add bra that joins girdle for slender line. Or choose all-in-one with firm front panel for the best control

**Tall and well proportioned,** experts agree that 2-way-stretch girdle and separate brassiere offer adequate support. To give dressy fashions a sleek line, you may want a well-fitted, all-in-one garment

**Hourglass** in shape with small waistline and big hips, wear a carefully fitted all-in-one to control hips and to diminish thighs. A gently molding bra gives natural contour to the bustline

**Large below waist,** you'll find the most support and comfort, and minimize extra inches, with a 2-piece foundation. A long girdle with a side opening is the easiest to adjust. Paneled pantie girdle slims the hips and thighs

**Large above waist,** a firm bust uplift is most important. Select a 2-piece combination—brassiere with wide straps, continuing over bust to diaphragm for comfort and firm support. Your girdle should be gently confining. **END**

# THE BADGE OF A DRUDGE!

Yesterday's women used washtubs, washboards and clothespins! Why is it that so many *modern* women are pinned to the clothespin, living without the convenience of an automatic clothes dryer? The clothespin belongs to the Dark Ages of household drudgery. *Today's woman* can dry clothes the Hamilton way, ready to iron or put away! *Today's woman* avoids the backyard backache of heavy clothesbaskets. She saves *hours* on washdays and she ignores the wind and weather. She's got grandma beat a mile with her Hamilton Automatic Clothes Dryer! If you want to know more, see your Hamilton dealer or utility company.

Write to Dept. SF-550 for free booklet on clothes drying, home laundry planning.

**HAMILTON MANUFACTURING COMPANY, TWO RIVERS, WISCONSIN**

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Address.....

City.....State.....


## Weed control

[ *From page 49* ]

***Answer:*** Prepare a very good seedbed for the corn. On extremely heavy patches of Canadian thistle, plow immediately before the corn is planted, and prepare a firm seedbed. This will give the corn a start over the thistles. The area should then be cultivated very thoroughly. At laying-by time, use 2,4-D at the rate of $\frac{1}{2}$ pound of salt or amine type or $\frac{1}{4}$ pound of the ester type per acre. Set the nozzles so that the area between the rows is very thoroughly covered.

***Question:*** What are effective sprays to kill dog fennel?

***Answer:*** For small patches, use Ammate or Dow Contact Spray. Ammate is used at the rate of 1 pound per gallon of water, and applied at the rate of 1 gallon to the square rod—or until the vegetation is thoroughly wetted. If dog fennel is sprayed when it is young, lower dosages can be used. The Dow Contact Spray is used at the rate of 1 gallon of concentrate to 35 gallons of water, and the vegetation is sprayed until it is wet. Both materials kill everything with which they come into contact. The perennial grasses, however, recover, whereas the dog fennel is killed completely when Dow Contact Spray is used. Ammate will kill the grass, too.

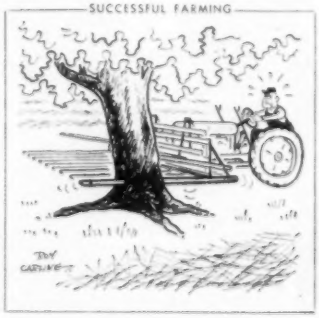
***Question:*** Is it possible to spray oats with a heavy dose of 2,4-D and not hurt the alfalfa?

***Answer:*** Alfalfa is very sensitive to 2,4-D and even light dosages have been known to be fatal to alfalfa seedlings. Sweet clover seedlings belong in the same category. Red clover appears to be more resistant. With dilute dosages of 2,4-D, if the spraying is done with extremely low pressure, and if the weed cover is extremely heavy so as to protect the red clover seedlings, occasionally a fair survival of red clover is possible.

***Question:*** What are some of the most sensitive plants so far as 2,4-D is concerned?

***Answer:*** Mustard, dandelion, catnip, small ragweed, giant ragweed, sunflowers, cocklebur, marsh elder, roundleafed mallow, stinging nettle, and sumac are outstanding examples of plants that are very sensitive to 2,4-D.

***Question:*** What can be used under an electric fence wire to keep the weeds from growing up and grounding the wire?



Beanie

"Okay, what happened to that candy bar in my back pocket?"

***Answer:*** You can use sodium chlorate, Atlacide, or Ammate. Spray a narrow band directly under the wire, wetting the foliage thoroughly. Do this in the spring, after the weeds have just commenced growth. Use 1 pound of weed killer per gallon of water and apply until leaves are dripping wet. This will last all season.

***Question:*** Will 2,4-D poison bees and wasps?

***Answer:*** Neither bees nor wasps are hurt by 2,4-D.

***Question:*** What is the best material to use in cleaning sprayers that have been used for 2,4-D?

***Answer:*** The best rule is to use one sprayer for 2,4-D only. However, when equipment must be cleaned, use household ammonia at the rate of 1 quart to 25 gallons of water. Flush sprayer several times.

***Question:*** When is the best time to spray brush?

***Answer:*** Brush should be sprayed after it is thoroughly leafed out, but before it becomes too old and tough. It's usually best to use the ester forms of 2,4-D. Very susceptible brushy plants such as box elder, sumac, poison ivy, willow, and poplar can be sprayed with 2,4-D ester alone. However, where any of these plants have shown resistance to 2,4-D, even in the ester form, use a mixture of 2,4-D ester and 2,4,5-T. Such mixtures are especially needed for Osage orange, oak sprouts, hickory sprouts, wild dewberries, and wild raspberries.

***Question:*** How is TCA used in the control of quackgrass?

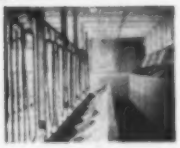
***Answer:*** TCA will kill everything with which it comes into contact. The best way to use it on quackgrass, so far as we know, is to allow the quackgrass to come up and start to produce seed heads. Then mow the area closely, and rake and burn the tops. Then spray the area with TCA. Use approximately 1 pound of the concentrate to a square rod, in about 1 gallon of water.

***Question:*** Is it possible to spray with a 2,4-D—DDT mixture for corn borers and weeds at the same time, with ground equipment?

***Answer:*** Chemically, it might work. But remember that when you are spraying for weeds, you want to keep as much of the 2,4-D off the cornstalk as possible. When spraying for the

[ *Turn to page 78*

**on the farm**



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## Weed control

[ *From page 77* ]

corn borer, on the other hand, you want to hit the corn plant with just as much of the solution as possible. So it's not recommended to try both jobs at once.

***Question:*** Is it possible to kill wild mustard in small grain without hurting the stands of alsike, red clover, and alfalfa?

***Answer:*** Mustard is very susceptible to 2,4-D. Delay spraying the small grain until it is well tillered but before any heads appear. The heavier the weed infestation, the more the young legume seedlings will be protected.

On mustard it is possible to use dilute concentrations, not over ¼ pound of salt or amine type or ⅛ pound of the ester per acre. The mustard will be killed at these concentrations. Also spray with low pressure, so the solution will not be driven down into the legume plants.

Red clover is much more resistant to 2,4-D sprays than is alfalfa or sweet clover. Alfalfa or sweet clover is so susceptible that the crop is usually a loss when spraying with 2,4-D is done.

Therefore, you must make the decision as to the advisability of spraying small-grain fields which have been underseeded to legumes. There is always some danger of hurting the seeding. However, if low pressure is used, and a dilute concentration when the weed cover is heavy, red clover is quite likely to survive.

***Question:*** In spraying the pasture weeds, is it more advisable to have the boom mounted in the front or the back of the tractor?

***Answer:*** So far as the effectiveness of the 2,4-D on most weed stands is concerned, either front- or rear-mounted booms will do an equally good job. However, if the weed stand is extremely heavy and if low pressure is used, it would perhaps be just a little better to have the boom mounted in the front, spraying the weeds before they are packed down by the wheels of the tractor.

***Question:*** Does 2,4-D persist in the soil?

***Answer:*** When used at recommended dosages, there is no danger that 2,4-D will build up toxic quantities in the soil. **END**

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SELF-STARTING • ELECTRIC

# Gardens are for children, too!

**By June Duphorne**

Every child should have a garden—a place of his very own where he can dig in dirt to his heart's content, and make things grow.

What parent has not received a bedraggled bouquet from a grubby fist? The 4-year-old expresses his love for dirt in mud pies or curiously tastes petals from Mother's prize geraniums. How happy he would be with a garden to proudly call his own.

If your child is small, he'll be happier with a small corner of the family flower bed than with a separate garden. A gaily colored packet of seeds, a bright red rake, and the sight of Mother working a few feet away—that is all you need to keep him happy and toiling for hours. Who cares if his main crop consists of weeds, caterpillars, and a dirty face?

A garden may be your child's first lesson in family cooperation as he trots back and forth with cups of water for your transplanting or adds his handful of radishes to the family dinner table. And the thrill of being a property owner may impress him with a new respect for that great American heritage.

The plants the young child grows must be interesting in themselves. Flowers he'll find enchanting are cockscomb which looks like those of real roosters, honesty (money plant) which seems to grow coins on its branches, and sunflowers that grow so fast you can almost see them do it. Popcorn will give double enjoyment, as it can be eaten later in a party atmosphere. Early radishes and lettuce to be praised at the table also will give him family prestige—a thing young children crave.

An older child, because of his greater patience and ability, will glory in a patch where he can "raise stuff all by myself." From such beginnings come the thousands of 4-H boys and girls who compete for honors at the county fair. These enthusiastic young gardeners get their start from understanding parents who make gardening seem like fun.

The smaller the child, the smaller the garden must be. Young hands soon become weary, and childish patience is only "about so long." Here are a few other points to remember when raising a gardener:

- Let the garden be his idea. Don't force him into it or he'll consider it just another chore.
- Let him choose his own seeds, but see that he gets those which are large enough to handle, hardy enough to grow under the rough treatment they will get. Good flower seeds are four-o'clock, zinnia, marigold, and sunflower.
- Be sure the variety is one he can appreciate. Choose early vegetables he can pick and eat before the thrill wears off, and blossoms he can cut and give away.
- The younger the child, the faster the seeds should germinate to hold his attention. Beans and squash that pop up with exciting suddenness are ideal. Tomatoes, though slow, give such satisfying results they are worth the extra effort. Feathery carrots are least desirable.
- Give him the proper tools—small ones he can handle. Buy them new and shiny with paint. Teach him to care for them properly—and set an example!
- Help him study the insects and weeds as he fights them. Let him see the relationship between rain, the sun, and his garden.
- Give him a goal at which to shoot. Take him to a flower show or a county fair to see what others are doing, and reward him with lots of praise for even the smallest achievements. **END**

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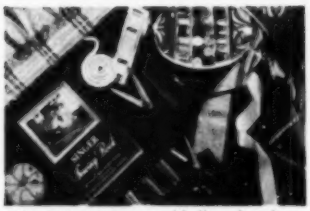

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## ...because Hudson has the lowest center of gravity in any car!

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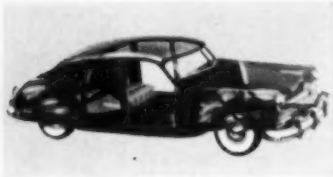

**Hudson floor is recessed down** within the Monobilt body-and-frame* (shown in red above), seats are lowered, so you get more than ample head room in this car with America's lowest center of gravity. You ride down within a base frame, with box-section steel girders completely encircling and protecting the passenger compartment.

*Trade-mark and patents pending.

There's nothing so delightful in all motoring as "The New Step-Down Ride"!

And why?

Consider this—technicians in the industry have known for years that the lower a car can be built, the better it will ride, the more surely it will handle and the safer it will be.

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†Optional at extra cost

## Are your buildings safe to leave outdoors?

[ *From page 16* ]

outside load on the windward side of the roof. This pressure is, however, in the same direction as the outside suction on the lee side of the roof. These forces acting together produce a strong lifting effect on this side of the roof.

If your buildings are to resist the wind, two very important items must be taken care of: (1) You must anchor the building to the foundation and (2) tie the roof securely to the rest of the frame.

In most buildings, the sill is well bolted to the foundation. Anchoring the sill, however, is of little value unless the rest of the building is well fastened to the sill. Either vertical siding or diagonal sheathing, well nailed to the sill and to the plate, will do the job. Without such a connection the building is held to the sill only by the toenailing of the studs to the sill and to the plate. This fastening isn't strong.

There are several simple and effective ways to tie the studs to the sill. If the studs and sill are of the same width, a satisfactory plan is to run 1"x3" strips, not less than 2' long, from the bottom of the sill up along each stud and nail them securely to both structural members. If the walls are to be ceiled, the strips may be extended up to the floor joists.

There are metal plates on the market which are good as framing anchors. These anchors are nailed into the top and face of the sill and the side and edge of the stud. They are light, easy to install, and make a strong connection.

As these anchors are thin, they do not interfere with lining the frame. The use of these anchors in buildings that are already sided requires that the studs and sill be the same width. In new construction they are placed on the outside of the frame so the relative width of studs and sill is unimportant.

A simple plan which can be used on an old building, regardless of width of sill, is to cut blocks from 2" thick boards that are as wide as the studs. The blocks must be long enough to reach from one stud to the next. Fit these between pairs of studs at intervals of 6' or 8'. Fasten them to the sill with two 6"x$\frac{3}{8}$" lag screws.

Nails driven through the studs and into the ends of these blocks make a strong job, provided that the studs are not of wood that splits easily. If the studs are easily split, 2"x4" pieces may be laid under each end of the sill blocks. Eight-inch lag screws are then needed. Getting the horizontal nails 2" farther from the ends of the studs greatly reduces the danger of splitting.

Of course, anchoring the studs to the sill does not hold the roof down. In new construction you can use framing anchors to fasten the plate to the studs and the rafters to the plate. However, when the building is up and roofed, these cannot be nailed. In this situation there is nothing better than ties placed at every second or third rafter. Either a 2x6 or two 1x6 pieces may be used. They are easily put in and make a really strong job.

Probably more roofs fail during windstorms by splitting open at the ridge than in any other way. For this reason, collar beams should always be used. These beams are horizontal members, usually about 6' long, nailed from one rafter to the rafter opposite, just below the ridge.

Without collar beams, the ends of the rafters usually are held together only by nails driven into the end grain of the opposite rafter. This is a very weak connection for holding the roof together and can't be relied upon.

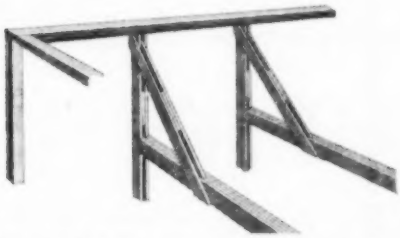
Anchoring the roof of a cinder block or structural tile building presents a special problem. It is usually recommended that bolts long enough to reach through the plate and two courses of masonry units be mortared into the blocks. This practice is good as far as it goes. You should remember, however, that these blocks are light and add comparatively little resistance to the action of a wind that is strong enough to lift a roof.

Bolts should be long enough to reach through at least four cinder blocks. Rafters may be secured to the plate by framing anchors or by securely nailing a vertical 2x2 piece to each rafter and to the plate.

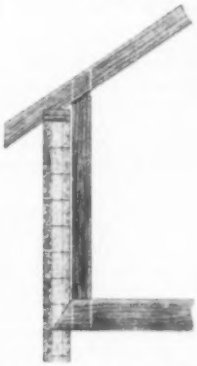
In cinder block buildings with loft floors, the simplest and surest roof anchors are 2x6 ties from the joist to the rafters. These can be put in during construction or after the building is completed. They should be at intervals of about 4' to tie the roof securely so that it won't blow off.

Frame side walls that are more than 3' in height above the loft floor need some

[ *Turn to page 84*



Heavy end plates, and braces leading from the plate to the girders, will prevent the end of the building from moving in or out. Note construction of the braces



Ties from rafters to the floor joists will secure the roof on a masonry-block service building

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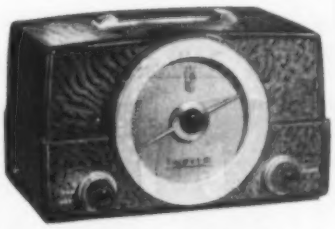

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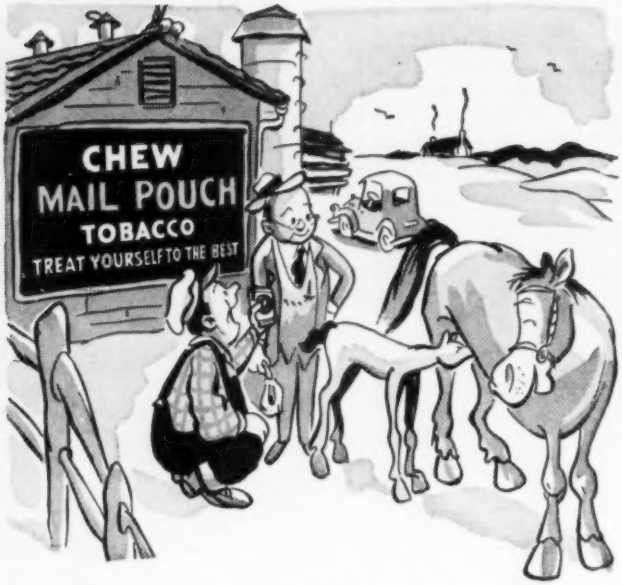


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SF-5

*Name* _____

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## Are your buildings safe?

[ *From page 83* ]

sort of support. Diagonal braces from the top of the studs to the floor joists are satisfactory. These should be placed about every 8′. Because such braces may tend to lift the joists, they should be fastened to the girder, also. Iron straps or 2″x2″ pieces fitted into the angles between the joist and the girder and then spiked to each will give added strength.

So much for tying the building down and bracing the side walls. But don't overlook the ends of your buildings. It's not uncommon to see signs of end weakness in dairy or hay storage barns. This weakness is indicated by a potbellied look when the barn is full, and by a hollow-chested appearance when it's empty. These barns are usually 34′ to 40′ wide, which is, then, the length of the end plate. Even a heavy beam of this length will bend under an average load.

Some barns are built with heavy lattice braces from about 10′ out on the purlin down to the girder at the end of the building. This type of brace, if well constructed, provides excellent support for the end wall. Because this brace is wide at the top and narrow at the bottom, long hay draws away from it as the hay settles. These braces are, however, difficult and expensive to install after the barn is built.

Simpler end braces can be built by bolting boards diagonally from the girder to the end plate. These can be put in after the barn is built. In large barns, two 2″x10″ pieces are usually enough. The pieces should be well bolted to double studs, close up to the end plate, and extend well out along the girder.

When the loft floor is loaded, this type of bracing is very rigid. When the loft is empty, there still is some danger of the floor's being lifted by high wind. For this reason the girder should be tied down to the footing of the nearest post.

Wind doesn't cause a downward pressure on the outside of a flat or very low pitch roof. It may, however, be blowing in or out of windows and, depending on its direction, cause a downward pull or a lifting effect on the underside of the roof. This makes it quite as necessary to tie down the flat roof as any other.

**Good taste is not expensive, except to those who don't have it.** —*Dr. M. F. Agha*

It's on the flat roof that snow gets in its dirty work. How destructive this may be naturally depends on the weight of the snow. In the Northern states, flat roofs should be strong enough to safely support snow loads of 30 to 35 pounds per square foot.

There is, at present, considerable interest in designing so-called low-cost farm buildings. The author has no quarrel with anyone who contributes to the reduction of building costs. Everyone will agree that building costs should be reduced. We cannot, however, overlook the economy of making farm buildings strong enough to resist the weather. The real cost of a building includes not only the original construction, but also maintenance. Poor design and construction mean high and recurring upkeep. **END**

## Made by this New Automatic Baler

Compare the wire knot tied by the new, completely automatic Oliver Model 8 . . . *with all others!* Then figure out the savings in feet . . . and *dollars.*

This short, tightly twisted, firm-holding knot averages only 1½ inches in length. What's more, the knot is turned in—*toward the bale!* No scraggly ends protrude to tear clothing or flesh. There are no "clippings" or short pieces. *No wire is wasted.*

And, when it comes to baling speed, the Oliver Model 8 will equal the output of any automatic machine made! It's *tons per day* that determine a baler's real capacity!

Yes, *compare* the completely new Model 8 with all others before you buy. Examine the compact, simple tying mechanism. Inspect the tie. Check the sturdy, "straight through" frame construction, full-floating pick-up, synchronized feeding units, "big beat" feeder head and the "top shear" that produces sliced bales. The Oliver Corporation, 400 West Madison Street, Chicago 6, Illinois.

***The Oliver wire tying mechanism*** **is so simple in design you can thread the shuttles and knotter in less than 5 minutes! Units are enclosed . . . fully protected. Servicing is easy, too. To detach the knotter or shuttle gearbox, simply remove the four bolts that hold each in place.**

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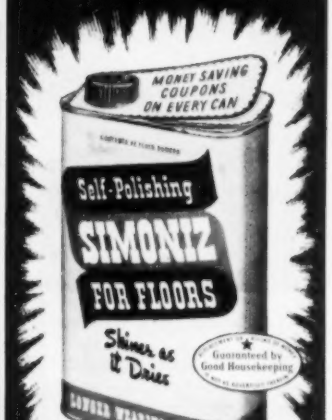


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MARVELOUS FOR LINOLEUM, RUBBER OR ASPHALT TILE, TERRAZZO, FINISHED OR PAINTED WOOD FLOORS

## Better workrooms

[ *From page 36* ]

For the workroom on page 37, we assumed that the average farm homemaker cans, freezes, washes, irons, sews, and handles a certain amount of the butchering. You will note that we have provided centers accordingly. The whole workroom is arranged for stepsaving.

You can save steps in your own workroom, regardless of its size or shape, by carrying out as many as possible of the following 20 idea guides. Most of these 20 guides are a real part of the workroom on page 37.

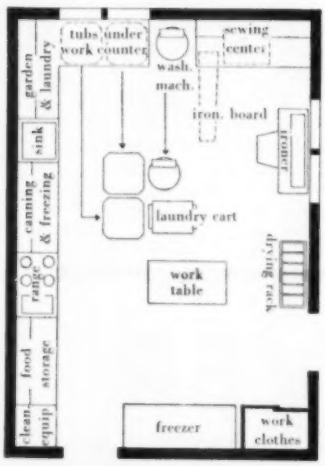
### Twenty guides to a laborsaving workroom

**1.** A workroom should have two doors—one the back entrance from the service yard, and the other leading to a central rear hall between workroom and kitchen. If you have no central rear hall, the door should lead directly from workroom to kitchen.

**2.** For easy cleaning and floor drainage, particularly when you have a conventional washing machine, a workroom needs a floor drain. The floor should slope 1 inch in 10 feet toward the drain. If the slope is much greater, there is danger of stumbling and of difficulty when rolling equipment.

**3.** You may color your concrete workroom floor with special concrete stains or paints. DON'T use regular paints or enamels; they won't hold. Concrete workroom floors may also be covered with inlaid linoleum, asphalt, or plastic tile. Keep in mind that bare concrete is hard on feet. Choose a marbelized pattern in a gray, beige, or light green shade if you want floor covering that shows least dirt.

**4.** There should be a work-clothing closet near the outdoor entrance so work clothes, boots, and rubbers can be put there upon stepping inside—thus preventing tracking into the workroom and the rest of the house. It is a good idea to provide a quick wash-up place for the menfolk, too.




If conventional washer is used instead of automatic, add counters in corner under windows; rinse tubs go beneath

**5.** A cleaning-supply cabinet should be located next to the kitchen door, so that equipment is easily accessible from both rooms. A homemaker's tool chest should be stored in this cabinet, also, so pliers, hammer, screwdriver, nails, screws, and so forth, are always handy.

**6.** Canned-food storage is best located near the kitchen. This eliminates all trips to the basement, excepting occasional ones for replenishing the shelves. Provide well-ventilated vegetable bins for storage of several weeks' supply of root vegetables, thus again eliminating daily trips to the cellar.

**7.** If much canning, freezing, and butchering work is done at home, there should be some kind of range in the workroom. It probably will be of most service to many homemakers if it is a coal and wood-gas combination. Such a combination allows easy burning of wastepaper, wood scraps, and so forth, and also provides quick heat for the room during periods of severe weather.

**8.** Canning, freezing, and butchering utensils should be stored between the sink and range because both appliances are used frequently in these processes.

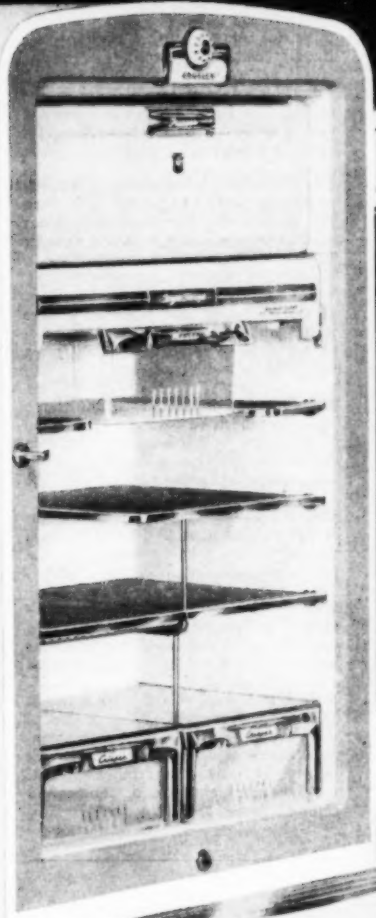
**9.** Laundry equipment and supplies should be placed together to provide use of maximum facilities with minimum steps. When you locate your laundry equipment, keep in mind that installations are slightly less costly and certainly less complicated when the laundry and sink are placed side by side, with water supplied off the pipe system. Also keep in mind that plenty of ventilation is necessary in order to prevent collection of moisture when automatic dryers are used. An exhaust fan helps considerably in pulling out excess moisture. On page 37, the fan is above the window.

**10.** A workroom should be supplied with a laundry cart. Such a cart is easily moved anywhere and eliminates lifting basketfuls of wet clothes. If you provide the cart with a cover, it can be used as a table-on-wheels for other jobs.

**11.** There should be convenient storage for garden supplies. If you have the space, flower-arranging equipment is best located at the sink where water is handy. But if you do not have space near the sink, a location such as indicated on page 37 is satisfactory.

**12.** Every workroom should have clothes-drying facilities. A drying rack on wheels is a stepsaver. It is not only convenient for drying occasional hand washings, but is handy for hanging finished articles for drying after ironing. When the rack is rolled next to the ironing board or ironer, you save yourself many steps. For drying of the complete laundry indoors, install rope lines if you do not have an automatic dryer. See page 36.

[ *Turn to page 88*



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## now with Pyrex Ware bowls!

**PYREX MIXING BOWLS!** *Mix, bake, serve,* and *store* in the *same* bowl! Less dishwashing—and how she'll love you for that. Sanitary—Pyrex Ware can be *scalded*. Compare!

**EASIEST PORTABILITY**
New, lighter beater unit glides off stand for use *anywhere*. No triggers, catches, or latches. A *one-hand wonder* that saves her time. Compare!

**EASIEST BOWL CONTROL**
Shifts ever-turning Pyrex bowl while beaters revolve. Gives even mixing without stopping the motor or touching the beaters. Compare!

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MIXGUIDE puts 10 tested speeds right under her thumb, right under her eye—magnified for flash reading. Compare!

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**EASIEST JUICING**
Juice, strained free of seeds and pulp, flows directly into serving glass. Nothing extra to wash. Extractor lifts out for cleaning. Rustless. Compare!

**EASIEST OPERATION**
The hand that holds the mixer sets the speed. Leaves her other hand free to hold a pan or add ingredients. A wonderful work-saver. Compare!

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***Made by the makers of top-value Hamilton Beach Vacuum Cleaners***


## Better workrooms

[ *From page 86* ]

**13.** Sewing and ironing should have a special place, preferably next to the laundry. This makes it convenient to repair and patch before laundering as well as at ironing time. The real home sewer should plan ample storage space in the workroom for patterns, scraps, materials, all sewing utensils—unless, of course, she has a special sewing room.

**14.** The ironer is best located in the sewing area, but it may be in the laundry area if there is sufficient space there for opening and using it comfortably.

**15.** If you have a home freezer, locate it as near the kitchen as possible. If far from the kitchen, the freezer usually is not used as frequently as it should be in order to insure economical operation.

**16.** Consider a place for egg packing, cream separating, and fire-wood storage in the workroom *if these activities are a part of your farm operation*. Centers for these should be near the back door.

**17.** Provide a workroom with one large table on wheels (a 3'x5' table isn't too big), so you have a large working area during butchering and canning seasons and for clothes sorting.

**18.** Provide as many built-in conveniences as you can use. Note built-in vegetable bins, ironing board, clothesline on pages 36 and 37.

**19.** Provide as much out-of-the-way storage for equipment as possible. On pages 36 and 37 note how sewing machine and tubs are stored under counter tops.

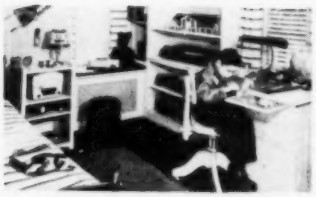
**20.** A workroom should have a bright and gay color scheme. Too many of them are dismal—instead of neat, clean, and cheerful—places. See that it is well lighted. A workroom requires several windows plus plenty of undercabinet and ceiling lighting. **END**

---

### Dusk on the prairie

So still the eve; the very air is hushed
Save for the far-heard cry of a homing bird
That hunts its nest in grass or low-grown bush.
Here on the prairie, dusk comes sifting down
Gray from the hand of God and settles silently
Across the wide, wide plains. The west, still bright
With last rays of the sun, wears on its breast
A far-flung crimson feather; as I watch,
It turns to downy gray and then is gone.
One by one the cottage lamps are lighted,
And one by one the stars come out in heaven.
Night settles down in hushed sweet resignation,
And I am wrapped in her dark coverlet.

—*Pansye H. Powell*



**Use color in young bedrooms**

Plan them for daytime use, too. (See page 40.) The stores listed below cooperate with the Successful Farming Home Planning Service. Visit the one nearest you for help in planning and decorating your home.

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Bloomington ..... Livingston's
Champaign ..... Robeson's, Inc.
Decatur ..... Block & Kuhl Co.
Galesburg ..... Block & Kuhl Co.
Peoria ..... Block & Kuhl Co.
Quincy ..... Block & Kuhl Co.

**Indiana**
Indianapolis ..... L. S. Ayres & Co.
South Bend ..... Robertson Bros.

**Iowa**
Cedar Rapids ..... Smulekoff's
Des Moines ..... Younkers
Fairfield ..... Bradshaws
Marshalltown ..... The McGregor Co.
Oskaloosa ..... The McGregor Co.
Sioux City ..... T. S. Martin Co.

**Kansas**
Coffeyville ..... Long-Bell Lbr. Co.
Liberal ..... Long-Bell Lbr. Co.
Pittsburg ..... Long-Bell Lbr. Co.
Salina ..... Long-Bell Lbr. Co.
Topeka ..... Karlan's
Wichita ..... Hinkel's

**Michigan**
Lansing ..... J. W. Knapp Co.

**Minnesota**
Albert Lea ..... Skinner Chamberlain
Mankato ..... Landkamer Bros. Co.
Minneapolis ..... L. S. Donaldson Co.
St. Cloud ..... Herberger's

**Missouri**
St. Louis ..... Stix, Baer & Fuller
Springfield ..... Heers, Inc.

**Nebraska**
Grand Island ..... Wolbach's
Lincoln ..... Gold & Company
Norfolk ..... Ballantyne's
Omaha ..... Orchard & Wilhelm

**New York**
Albany ..... W. M. Whitney & Co.
Geneva ..... Lauer Furniture Co.
Rochester ..... McCurdy's
Watertown ..... Household Merit

**Ohio**
Ashtabula ..... Carlisle-Allen Co.
Columbus ..... F. & R. Lazarus
Dayton ..... The Rike-Kumler Co.
Mansfield ..... The M. O'Neil Co.
Springfield ..... Wren's

**Oklahoma**
Clinton ..... Long-Bell Lbr. Co.
Enid ..... Long-Bell Lbr. Co.
Oklahoma City ..... Long-Bell Lbr. Co.
Tulsa ..... Long-Bell Lbr. Co.

**Pennsylvania**
Pittsburgh ..... Joseph Horne Co.
York ..... Wiest's

**South Dakota**
Huron ..... Fullerton's
Sioux Falls ..... Johnston's, Inc.

**Wisconsin**
Manitowoc ..... Boston Store
Milwaukee ..... Gimbel Bros.
Oshkosh ..... Boston Store

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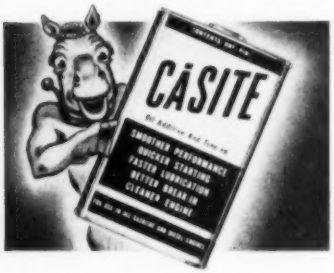
Wake up, clean up, tune up your engine with Casite. Casite's cleansing action quickly removes gum and goo, frees sticky valves and rings, leaves the motor clean and free-running, power zooms through.

### CASITE PROTECTS ALL ENGINES

You'll get smoother, safer break-in of any new engine with Casite in the crankcase. In both new and old engines Casite gets oil quickly to wearing parts—cuts repair bills.

### CASITE SPEEDS MOTOR OIL 22%

at 100° F. (more when colder). Even the best lubricating oil must warm up to at least 210° to reach top efficiency. Casite speeds motor oil faster at starting temperatures, assuring lubrication during vital warm-up period. Reduces "start-up wear."




### NEW ENGINE OR OLD ENGINE, KEEP CASITE IN YOUR ENGINE

Only 75¢ a pint

THE CASITE CORPORATION • HASTINGS, MICHIGAN

***Better and Smoother Performance***

**OR DOUBLE-YOUR-MONEY-BACK**

This type of cutover land, with fertilization, does wonders in producing good calves

# They've found a good way to market calves

**A visit to Michigan farmers who use land for calf raising and get the high dollar for their product**

**By Grant Salisbury**
Michigan State College

In the northeastern corner of Michigan, just above Saginaw Bay, a group of farmers have proved you can take the proper natural resources and, with vision, planning, and group action, produce and market a quality product. In the story of the Northeastern Michigan Hereford Calf Association, there are ideas for individual farmers and groups of farmers everywhere.

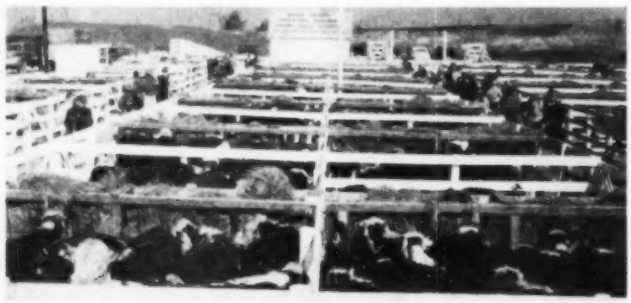
Members of the association live in the 5-county area of Alcona, Oscoda, Iosco, Ogemaw, and Arenac. In this part of Michigan, where lumbering fortunes were made and "cutover" land was left behind, high-quality Hereford feeder calves are produced from abundant supplies of grass. These calves are marketed once each year through the association's own saleyards in West Branch. Take a look at this record from the 1949 sale held on October 18:

Eight hundred and eighty head sold for an average price of $26.64 per hundredweight. Three hundred and ninety steer calves, averaging just under 400 pounds, were sold for an average of $30.91 per hundredweight. Two hundred and sixty heifer calves, averaging 370 pounds, brought $26.87 per hundredweight. One hundred and fifty-one yearling steers, averaging 741 pounds, brought $22.45, and 70 yearling heifers, averaging 580 pounds, went for $21.65 per hundredweight.

It was in 1939 that C. T. (Charlie) Prescott and some 20 interested farmers and county agents got together and formed the Northeastern Michigan Hereford Calf Association. Prescott was named president and still serves in that capacity.

The first years of the organization were spent in promoting interest in the project and educating members in some of the

[ *Turn to page 92*



Saleyards at West Branch, Michigan, will handle more than 1,000 cattle, and the grandstand around sale ring holds 400 people. The scale house can be seen in background

# FEED TO GET UP TO 1/3 MORE ON THE NEW PURINA HOG PROGRAM

## WEAN HEAVY PIGS . . . MARKET HOGS AT 5½ MONTHS

**—on the New Purina Hog Program**

Now it takes only about 5½ months to produce 200-225 lb. hogs at the Purina Farm on the New Purina Hog Program. On grain alone it takes about 8-9 months, farrowing to market. Produce pork up to ⅓ faster and ship ahead of the big runs, when prices are usually higher.

CUT YOUR FEED BILL! The New Purina Hog Program produces 100 lbs. of pork on 5½ bu. of corn and 50 lbs. of Hog Chow. It uses about $25 less feed per sow and litter than the former Purina Program (based on October 1949 prices). Saves about two weeks of labor, too.

YOUR PURINA DEALER will be glad to give you details of the easy-to-follow New Purina Hog Program. Drop in and see him next time you're in town.

**RALSTON PURINA COMPANY · St. Louis 2, Mo.**

**NOW EVEN BETTER! APF ADDED**

**...AT THE STORE WITH THE CHECKERBOARD SIGN**

# HOME ... IS A WAY OF LIVING

BRAND NEW, or familiar and lived in, your home is headquarters for your farm, for your family, your needs and your way of living.

Whether you're building or remodelling, the best materials cost little more and mean much better living for the many years that lie ahead . . .

The roof you select is a good example . . . it adds color and distinction, and it is a seal against the ravages of time and weather, protecting your home and everything in it.

Best of all . . . for high quality and low price . . . is a roof of Bird Master-Bilt Shingles. They're made in the widest array of colors and blendes you've ever seen, and in your choice of either Master-Bilt Plain or Master-Bilt Weather-Tex designs. Bird Master-Bilt Shingles are armored by *extra* layers of asphalt and deeply embedded mineral granules, and they're fire resistant. Thick rugged butts give extra protection where wear occurs, and the heavy shadowlines give a rich massive appearance to the roof.

*Bird Master-Bilt Weather-Tex*

Rugged and weathered appearance . . . a rich massive design for any home.

*Bird Plain Master-Bilt*

The smooth heavy texture of slate . . . outstanding in appearance and wear.

*For more information about Master-Bilts, write us . . . Bird & Son, Inc., Dept. SF-1, 1472 West 76th Street, Chicago 20, Ill.*

**BIRD *Master-Bilt* SHINGLES**

*East Walpole, Massachusetts* — BIRD & SON inc. — *New York, New York, Shreveport, Louisiana*

**BIRD & SON, inc., 1472 West 76th Street, Chicago 20, Illinois**

MADE BY THE MAKERS OF BIRD LINOLEUM AND FLOOR COVERINGS


## Way to market calves

[ *From page 90* ]

fine points of handling a beef cow herd to produce quality feeder calves. By 1945 the association was ready to crack its marketing problem.

If you'll look at a map of Michigan, you can see that the area above Saginaw Bay is around 200 miles from the nearest terminal market in Detroit. However, there are plenty of experienced cattle feeders in the grain-producing areas of southern Michigan. In fact, more than 100,000 feeder cattle come into this area each year—most off the Western ranges.

It has taken cooperation in the right places to make this project successful. Local support has come from the West Branch Chamber of Commerce and others in the area, without whose aid it would have been tough to build the sale-yards. Enthusiastic support has come also from the Michigan Department of Agriculture, which contributes from its advertising funds to promote this sale of Michigan-grown feeder calves. The state Agricultural Extension Service has lent its manpower for such jobs as supervising the weighing and sorting of animals. And several Michigan meat packers contributed toward building the yards.

In 1946 the farm management specialists at Michigan State College set up a cooperative study of beef cattle management on some 20 farms owned by association members. Now the records are kept each year and have been a valuable guide to all concerned.

The members themselves are loyal to their organization. Many of them have offers each year to "contract" their calves, but they refuse to sell outside the annual auction. They don't regret it.

It costs members a dollar per head for each animal consigned and a 2½-percent commission. The fee per head is used mainly for advertising, and the money collected from the sale commission goes to pay off the balance on the yards and keep them up.

As to other mechanics of the sale, it's been shown year after year that there is no shrink in weight of the animals from the day they enter the yards until they are sold. In fact, they usually show a little gain in weight. They are weighed off the trucks into the yards without feed or water, and that is the sale weight. They get hay and water in the yards.

Trucking facilities are available at the yards for buyers. Any buyer in southern Michigan can have the animals in his own feedlot within 4 to 6 hours after sale time, ready to go to work for him.

To show how cows and calves are produced in this area, take the farm of Harold and Howard Hodgins. These two brothers have converted their place from a dairy enterprise to one which carries a profitable beef cow herd, and it has paid its way, all the way.

The Hodgins brothers own 290 acres, with 150 tillable. The rest is in woodland or cutover land. They rent another 80 acres across the road, all of which can be cultivated. This total acreage has carried a herd of 40 beef cows, and this year they have gone to a 50-cow herd. They cleared 10 more acres of cutover land last year.

Their long-range program calls for clearing 10 acres each year in order to increase carrying capacity and better

their setup for producing legume seed, one of the balance wheels of their farming. Another balance is the growing of wheat and barley as cash crops.

The uniformity of their calves is remarkable. That's because they handle the cows to keep them in good reproductive health and keep two active bulls to cover the herd at breeding time. Each year, 90 percent of the calves are dropped within 30 days. Up until now, April has been calving time, but this year it was March. That way, they figure on having 50 more pounds on each calf by sale time.

Their top bull is a rugged 4-year-old with plenty of type and quality and a nice disposition. "Stays home and breeds his own cows," says Harold. "Never looks at those dairy cows across the fence." As a yearling, he cost $375. His sire was WHR Proud Mixer, 13th. They have another bull with a WHR background.

The Hodgins brothers know how to use the figures which come from the farm-management record project. They can tell you the average net return per cow on their farm; it was $66.12 in 1948. They know how much feed went into each cow and each calf. And the records tell them what they need to know about the cost of keeping a bull.

First cutting from the "tame" pasture is used for hay each year. The average hay yield is 2 tons per acre, and it often runs as high as 3. Then pasture is handled so there is enough in the dry season.

A hay and pasture mixture of brome, alfalfa, and June clover is used. The first year after planting, June clover seed is harvested. Just before sale time last year, they took 18 bushels of cleaned seed from a 10-acre field. It was worth $21 per bushel. The second year a crop of alfalfa seed is harvested. The hay and pasture fields are left for three years.

Fertilizer goes on the cutover land to make the native grasses highly productive. The Hodgins brothers have found the truth in the gospel spread by Casper Blumer, agricultural agent for Alcona and Oscoda counties and unofficial grass expert for the area. Anywhere from 300 to 500 pounds of 0-20-20 per acre, every other year, will make the grass flourish between the old pine stumps. It will carry a cow and calf per acre except in the dry season. Fertilizer makes the grass come on earlier, stay later, and come back more quickly after drouth.

Harold and Howard Hodgins feed grain in a creep to insure bigger calves at sale time. This also insures the buyer that the calves are ready to eat grain when he gets them home. In fact, all calves at the annual sale have been weaned one or two weeks before sale time and taught to eat grain.

The success of the Northeastern Michigan Hereford Calf Association encouraged beef men in the counties farther north and west to form the Northern Michigan Beef Breeders' Association in 1946. It sells annually at its own yards in Gaylord and gets the same cooperation from the extension livestock men at the college. This year they sold 607 feeders of three breeds—Hereford, Angus, and Shorthorn. The average price was $25.36 per hundredweight.

And that's the story of how a group of farmers with foresight used group action and natural resources to produce a quality product and get it to a market where it is in good demand. **END**


# *Only* ONE WORK SHOE CAN MAKE and PROVE THESE CLAIMS

## *Only* WOLVERINE *SHELL* HORSEHIDES

**HAVE BOTH** SOLES AND UPPERS OF SUPER-TOUGH INNER-SHELL HORSEHIDE.

**TANNED BUCKSKIN SOFT** BY THE SECRET, EXCLUSIVE WOLVERINE TRIPLE-TANNING PROCESS.

**NO OTHER** WORK SHOE OR WORK SHOE LEATHER IN THE WORLD LIKE THEM.

**SEE THAT SHELL**

The shell is the tough, hornlike center layer of Shell horsehide—a three-ply hide found only directly over horses' hips.

Shell horsehide, fibers are vertical—wear longer because they wear on the END, like wood in a butcher's meat block.

Wolverine's secret tanning process, tans shell horsehide buckskin soft, yet retains ALL its great strength and wear.

*IMITATIONS? PLENTY! DUPLICATES? NONE!*

Right! Plenty of work shoes look like Wolverines—at least when new. BUT—try to find *any* others able to make and prove the claims above. Wolverine Shell Horsehides have proved them times without number on millions of workers' feet. They have proved, too, that—month for month and mile for mile of service—Wolverines actually cost less to wear. Wolverines are moccasin-soft, too—dry out soft—stay soft due to Wolverine's secret triple-tanning process. Why not get the whole story? See your Wolverine dealer today and try on a pair of *Wolverine Shell Horsehides.*

**WOLVERINE SHOE & TANNING CORP., Rockford, Michigan**

**FREE!**

Your dealer will see that you get a pair of 36" genuine *Duralace Chrome Leather Laces* FREE after you hand him this coupon and inspect or try on a pair of Wolverine Shell Horsehides.

**TO ALL WOLVERINE DEALERS:**

Bearer is entitled to one FREE pair of 36" *Duralace Chrome Leather Laces* after presenting this coupon and inspecting or trying on a pair of Wolverine Shell Horsehides.

Name _____

Address _____

City _____ State _____

Dealer's Name _____ Dept. 505-B

# You can't always tell GOOD SOIL by looking at it

**Does it contain the necessary trace minerals? Is it deficient in a way you cannot see?**

UNLESS soils contain the vital trace minerals—iron, copper, cobalt, manganese, and iodine — literally measured in ounces and pounds per acre — crops cannot contain them and livestock don't get them. The result: your dairy cows, hogs, sheep, and beef animals are not as healthy, as thrifty, as profitable as they might be.

Here's why: Livestock need trace minerals, in combination with salt, for the most efficient digestion and assimilation of feed. The chlorine of salt helps make the hydrochloric acid needed to digest protein. The sodium of salt is needed to digest fats and carbohydrates. Trace minerals are needed for the proper functioning of the enzyme, vitamin, and hormone systems, the basic life activities, that convert feed nutrients into blood, bone, muscle, tissue, and milk.

The simple, easy way to make sure your livestock are getting these vital trace minerals — and salt — is in Morton's Free Choice Trace Mineralized Salt. It's like a low-cost insurance policy covering all your livestock that costs only a few cents more per animal per year. The benefits are faster gaining animals, more and healthier young, lower feeding costs. For bigger profits, feed Morton's Trace Mineralized Salt, *free choice*, to all livestock.

**MANGANESE**
Needed for reproduction, for milk flow in mother animals, for sound bone growth.

**IODINE**
Needed for the hormone thyroxin in the thyroid gland which controls all body activities.

**COBALT**
Needed for a healthy condition in the intestines, for better use of feed, for making blood.

**IRON AND COPPER**
Needed for making red blood cells which carry oxygen needed throughout the body.

*Make This Simple Test*
Next to your regular salt supply, put a few pounds of Morton's Trace Mineralized Salt. You'll be surprised how your animals will go for the trace mineralized salt, showing their need for iron, copper, cobalt, manganese, and iodine it contains.

**MORTON'S**
*Free Choice*
**TRACE MINERALIZED SALT**
*For Healthier, Thriftier Livestock*

**Send for Free Booklet and Folders**
Get all the facts on feeding Trace Mineralized Salt. Write for important literature on feeding salt and trace minerals. Mailed FREE. Morton Salt Company, P. O. Box 871, Chicago 90, Illinois.




## An open letter

[ *From page 33* ]

we've sold a higher standard of living. We've shown people the advantages of bathtubs, furnaces, and bobby pins. We've sold *enough* to enable industry to produce large volume at low unit cost. We could do the same for agriculture.

But we've never convinced any great number of people they should eat the *food* they need. That it is smart to be well nourished.

American mothers have actually fed their families *less* for each of the last few years. That's in spite of the fact that our national income has gone right on up, while food prices are among the few which came down. Why can't we sell a woman as much food as we did in 1947? Well, we're not *sure* we know. But we think it's because the makers of cars, television sets, and canasta games are giving us more competition. Manufacturers are dangling more tempting gadgets in front of our customers' noses, and *selling* them. Result? Less money left for ordinary potatoes, the same old-fashioned milk.

*City people think food prices are high—and give farmers all the blame.* But there are a lot of costs between the farm and the grocery store. So many, in fact, that the farmer now actually has *less* influence on retail food prices than do the middlemen. Housewives have never been told this part of the story.

Dairymen get 9.7 cents for producing milk. But it costs 10.3 cents to put it into bottles and bring it to city doorsteps. Wheat has dropped from about $3 a bushel to around $2. During the same period, bread stayed the same. In a few cities, such as Detroit, Cleveland, and Indianapolis, it actually went up!

On the average, farmers get only 47 cents of each food dollar. Florida orange growers get as little as 16 cents of the dollar a Chicag housewife pays for oranges. Out of a 16-cent, No. 2 can of corn, only 2.9 cents goes to the farmer. Still, city housewives are constantly told it's the *farmer* who jacks up the food price.

Worst of all, the high-priced food story itself isn't true. Food is *not* expensive in America. One hour's work in the United States buys twice as much food as in most other parts of the world. Department of Labor figures show us: In 1914, a laboring man had to work 30 hours to earn a week's food supply for his family. Now, he earns it in 12 hours. It takes a *smaller* portion of his income to buy the same amount of food. Food is *cheap* in America; and the farmer gets *less than half* of what it *does* cost.

*We're not just sure who is a farmer.* The Census Bureau says there are six million farms in the country. But some of the Census Bureau's farms are peculiar. If you own three acres of ground—any kind—you're a farmer. Or if you produced $250 worth of any livestock or crops, even a garden, you're a farmer.

At first glance, that shouldn't bother us. But it does. It ties us up in knots.

The reason is this: None of our yearly crop of "long-range" farm plans takes any account of these tremendous differences in "farmers." The term "long-range" seems to indicate the planners stood quite a long distance from the problem they were supposed to solve. They

are trying to use *one* plan to take care of a Kansas wheat farmer, a Cornbelt cattle feeder, a California fig grower, and Sam the trash man, who lives in a secondhand chicken coop on the edge of town, in the middle of four acres of weeds, rats, and dogs.

Now each of those men may need help. But a single system won't do it.

Suppose you decide, "From now on, all farmers shall receive twice as much as they did yesterday." That makes the wheat grower very happy, because he has lots of wheat to sell. But Sam the trash man became personally acquainted with only $275 cash money, all last year. Two times $275 still won't allow Sam to live the way we think Americans should.

Or start from the other end.

Suppose you decide every farmer should take in at least $3,000. You can't cut him below that. So you give him a minimum acreage allotment or marketing quota, enough to make sure he gets $3,000. This looks pretty good, so Sam and all his friends jump aboard.

But with Sam and his pals each squatting on a minimum allotment, something's got to give. We have too much production. We can't take any away from Sam. So who gets the cut? The actual, producing farmer. If the "average" cut is 10 percent, he has to take his and enough for 50 Sams, too. So he may be cut 20 percent, then 30 percent, then 50 percent. Pretty soon Sam has competition in the trash-hauling business, because the actual farmer has gone broke.

That system is in full flower *right now* in our tobacco and cotton fields. It has started in the Cornbelt. The national corn acreage was cut by about 12 percent. But in the Cornbelt, the area best suited to corn growing, we were asked to cut down 19.7 percent.

Sure, it sounds crazy. That's because it *is* crazy.

We have three levels of farmers. The top level actually produces the nation's food. Less than 50 percent of the Census Bureau's farmers produce over 90 percent of the food. This group of two or three million farmers needs some sort of *temporary* program, to help them adjust their production. Over the long run, these farmers will be able to sell their production at a profit. They'll have to, because city votes will never subsidize them over any long period of time. Over the long run, we're headed for larger farms, more efficiently operated.

Another million or so farmers are serious, conscientious tillers of the soil. But their farms are small, or the soil is poor, or they are poor managers. They make a living, but not a very good one. These folks need long-range help. The Farmers Home Administration has tackled this group, with notable success.

Finally, we have a million or two "farmers" who have never fooled anyone who actually saw them. They aren't farmers. Many are not workers of any kind. They never have worked, aren't working now, probably never will work. They are poorly fed, poorly housed, poorly educated, poorly adjusted to society. They are a terrific problem, but not just a farm problem. It's up to all of us to do something about them. But let's not base a farm program on their incomes, or on their energy.

[ *Turn to page 96*


# LONG LIFE!

## 18 year old roof proves durability of *Channeldrain*

REG. U. S. PAT. OFF.

"Barn roof was applied in 1932 and nothing has had to be done to it in all that time. It does not leak and has never been painted yet. I do not feel that it will require painting for several years."

*A. H. Grim*
Shade, Ohio

## For long life . . . for storm-resisting roofs

## SUPER *Channeldrain*

REG. U. S. PAT. OFF.

## *ROOFING*

Extra strength . . . extra lap protection against leakage . . . extra resistance against corrosion – that's what makes Wheeling Super-Channeldrain Roofing a first choice for leak-proof service. Only Channeldrain has the strength of Cop-R-Loy steel. It gives you the extra storm protection of its exclusive double Channeldrain lap. And the time-defying corrosion resistance of its special Dura-Zinc-Alloy coating. The result – security for your crops, stock and tools . . . for years and years and years. See your Wheeling Dealer.

### *A finer seed bed with THE WHEELING DIAMONDRAG*

Farmers report fine stands of crops when they use Wheeling Diamondrag. Each section is a mesh of steel diamonds that cut up clods and lumps like tiny plows. Gives a harrowing or a rolling action to produce an evenly-pulverized seed bed.

### *Wheeling Ware lasts longer*

Every piece of Wheeling Ware – tubs, pails, baskets, garbage and feed cans – is hand-dipped in Wheeling's exclusive Dura-Zinc-Alloy, that seals every seam and crevice against rust and weather. Look for the famous Red Label.

USE THIS COUPON

**OFFICES AND WAREHOUSES:**
Wheeling · Atlanta · Boston · Buffalo
Chicago · Cleveland · Columbus · Detroit
Kansas City · Louisville · Minneapolis · New Orleans
New York · Philadelphia · Richmond · St. Louis

**WHEELING CORRUGATING CO.**
**WHEELING, WEST VIRGINIA**
*Please send information regarding items checked.*
☐ *Diamondrag* ☐ *Channeldrain Roofing* ☐ *Wheeling Ware*
NAME_____
STREET_____
CITY_____ STATE_____

## KEEP INTERIORS COOLER

**WITH THE RIGHT ALUMINUM PAINT.** Learn how to choose exactly the right type and quality of aluminum paint to lower interior temperatures as much as 15 degrees, beautify and protect metal and composition roofs. This and many other helpful painting facts are offered in 24-page book, "Paint It Bright". Fill out coupon below for your free copy. You'll be surprised to learn the great difference in aluminum paints. This metal roof, for example, is being painted with ALUMINUM METAL & MASONRY PAINT. It's available from the dealer displaying the Alcoa symbol of quality on the brand he sells.

**EXPERTS TELL in "Paint It Bright" how to buy and how to obtain the best painting results with aluminum paints. Don't buy until you've read it.**

**Paint Service Bureau, ALUMINUM COMPANY OF AMERICA, 1725E Gulf Building, Pittsburgh 19, Pa.**

Please send me free book, "Paint It Bright".

Name (please print) _____

Address or RFD No. _____

City _____ State _____

I want to paint the following: _____

ALCOA

**Look for this shield on aluminum paints made by many paint manufacturers using ALCOA PIGMENTS**

Mr. Junkin greases his corn-picker by Coleman Lantern light.

By doing repair jobs at night, Mr. Junkin saves daylight hours for crop production.

## "Your Outdoor Night Jobs are Easier with a Coleman"

***Says Max W. Junkin of Nebraska***

*Used and Endorsed by* **LEADING FARMERS** *Everywhere!*

**Prices as low as $9.95 in U.S.A.**

Max Junkin, like thousands of other farmers with electricity, relies on his Coleman Floodlight Lantern to help get more farm work done.

**BIG Farm Light**—20 times brighter than old-fashioned wick-type lanterns. Floodlights 100-ft. area . . . Lights instantly . . . Makes and burns its own gas from gasoline. Safe. Can't spill fuel. Storm proof. Ask your dealer for a demonstration. Write for *free* book about Coleman Lanterns and Coleman Appliances.

**The Coleman Company, Inc., Dept. 119-FA, Wichita 1, Kansas**

**Coleman** **Floodlight LANTERNS**


## An open letter

[ *From page 95* ]

All right, then. Those are the problems. Those are the people. What have we offered as solutions to the problems, as hope for the people?

Most every plan so far has worked on the theory that we could get more for less. None of them has worked. Each cost a lot of money.

Since the war, in the last two years, we have had a "long-range" program put through Congress each year. Now, Secretary of Agriculture Brannan is actively and belligerently trying to bring the score up to three programs.

The first act, known as the Hope-Aiken, or 1948, Act, assumed our problem was one of adjusting to postwar reality. That prices of the war-boomed crops should be held up *long enough for us to shift into others*, but should be gradually lowered—to remove our incentives for growing things nobody wanted. It assumed that, most of the time, farmers should stand on their own feet. But they should be protected against another 1932.

This had two things wrong with it. It had little political sex appeal, and the next Congress was controlled by the opposite political party. Naturally, this Congress could not see how anything the preceding one had done could be right.

So we got the 1949 act passed before the 1948 act even went into effect. Farmers didn't ask for the second act. It's what politicians *thought* would get them the votes of the rural "have-nots." Farm organizations didn't like it. It ignored a good many important crops, but took good care of tung nuts and mohair. It set support prices so high that we guaranteed ourselves surpluses. It made no move to help a farmer shift to producing something he could sell, as industry and labor were helped.

That same system has filled our caves with eggs and butter, our newspapers with frankly rabble-rousing potato stories. And it has filled the hearts of agriculture's customers with stone.

Then came Mr. Brannan, offering all things to all men. Let prices fall, he says, on the market. As far as they will. That tempts the city housewife, who thinks it means cheap food. Then Mr. Brannan tries to tempt farmers by telling them *their* price will be high—the difference to be paid direct from the government. Low prices for the consumers, high prices to farmers for the *same food*, and it won't cost anybody very much!

That would be fine, if it would work. A good many intelligent people think it won't. But Mr. Brannan *has* brought forth a plan. It's more specific than anything its opponents have offered. And he has had the courage to fight for it. It deserves study, so let's inspect it, point by point. Could Mr. Brannan deliver:

1. Cheap food to the housewife? This assumes that falling farm prices mean lower grocery store prices. They don't.

Look at broilers, for example. Prices have fallen 30 percent at the farm level. But grocery store prices have come down only 4½ percent.

If milk fell to *nothing* on the market, it would still cost nearly 13 cents a quart by the time it reached a city doorstep. Fruits and vegetables have had no support

[ *Turn to page 98*

*You can get reprints of this advertisement, at no cost, by writing to this magazine.*

# *Will you leave these to your children?*

Men have died to leave you these 4 symbols of freedom:

**A door key** – your right to lock your door against illegal government force and prying.
*(Fourth Amendment, U. S. Constitution)*

**A Holy Bible** – symbol of your right to worship as you wish.
*(First Amendment, U. S. Constitution)*

**A pencil** – freedom to speak or write what you think, whether you agree with the government or not.
*(First Amendment, U. S. Constitution)*

**And a free ballot** – your right to choose the kind of government you want – your protection against government tyranny.
*(Article I, U. S. Constitution)*

These symbols have no meaning in countries where government controls everything–for there the individual man or woman has *no* freedoms.

But there are people who are trying to give the U. S. government more and more control over American life. "Let the government start," they say, "by taking over certain industries and services – the doctors, the railroads, the electric light and power companies."

Most of these people – like most Americans – *don't* want a socialistic U. S. A. They have other reasons for government control. But when government, moving step by step, controls *enough* things, you have a socialist government, whether you want it or not. *You'll* be controlled, too. Then what freedoms will you be able to pass on to your children?

* * *

**We, the *business*-managed electric companies which publish this advertisement, are battling this move toward a socialistic government. We want to remind everyone how seriously it threatens *every* business – and *everybody's freedom.***

**America's *business*-managed, tax-paying**

**ELECTRIC LIGHT AND POWER COMPANIES***

*Names on request from this magazine

"MEET CORLISS ARCHER" for delightful comedy. CBS—Sundays—9 P. M., Eastern Time.

*PEACE OF MIND comes gently, by many paths, when you have lost a loved one. And surely one way is through the precious knowledge that you have provided the finest tribute . . . the most trusted protection against water in the ground.**

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CLARK

GRAVE VAULTS

*THE FINEST TRIBUTE • THE MOST TRUSTED PROTECTION*

## An open letter to American farmers

[ *From page 96* ]

prices. Every recent year, market prices have fallen so low tomatoes have been left to rot on the vine; but they've held at high prices in the stores. This past winter, the Cornbelt farmer and the hen, between them, earned 20 to 25 cents a dozen for eggs. But eggs sold for anywhere from 60 to 90 cents a dozen out of Eastern grocery stores.

And the small savings which *would* filter down to the housewife would be more than lost in increased taxes, to even partly fulfill Mr. Brannan's promises to farmers. Some simple-minded souls still think the millionaires would have to pay any increased taxes. But we're running short of millionaires; there aren't enough to pay for everything our government promises. It's the middle class that's paying most of the taxes now.

2. High prices to farmers? Under both our present plan and Mr. Brannan's, the farmer's only hope for a decent income is an annual handout from Congress. What makes us so sure 120 million nonfarmers would remember all the promises they were supposed to have made to 28 million farm people? Would they allow their congressmen to actually appropriate enough money to subsidize farmers?

Anyone who thinks so probably spends each Christmas Eve hopefully gazing up the chimney, waiting for Santa Claus to arrive. City folks aren't noticeably happy over the money now being spent for farm price supports. And we're spending only pennies compared with what Mr. Brannan's followers have in mind.

Again, we have some experience to guide us. Back in 1938 and 1939, Congress *authorized* a half billion dollars a year for farm supports. Did we get it? We got 32.8 percent of it—and no one was mad at us. Everyone was for it, but they still cut it to a third. It's hardly likely that consumers love us any better now.

But here is the really scary part:

That's the controls, the regimentation. The socialization, if you want to call it that. It isn't limited to Mr. Brannan's plan, as he has accurately pointed out.

We have a taste of it now. The bigger bite we've taken, the more bitter it has been. And the bigger bite we take, the harder it is to go back. It's a habit-forming drug. And the higher the supports are set, the more rigid controls you get.

Whom are they supposed to help? Well, let's see. Some folks like to say it's all to help the "family" farmer. By this, they mean the low-income farmer. But price supports don't do much for him, because he doesn't have much to sell. Add a third, or even a half, more to an income of $800 a year, and he's still in tough shape. He needs help, but this doesn't give it to him.

The large-scale farmer, then? Yes, price supports would be fine, if they really applied on a large scale. But Mr. Brannan has already said he would place an upper limit on this fellow. Whittle him down to size, so to speak.

Have the planners done such a good job at running the government efficiently, that we now should *all* be managed by them? The machinery is all set up, ready to go. In my files, I have a copy of field-by-field forms which are already being filled out. Can you imagine forms in triplicate for *every field* on *every farm* in the United States? And how many people it would take to decide what should go in each field? And men to cruise the country roads, making sure each farmer plants corn in Field A, soybeans in Field B, and nothing at all in Field C? We already, *without* much control, have 89,000 Production and Marketing Administration committeemen drawing part-time pay. Are they to be forced, against their will, into becoming a political police force?

If we believe in Santa Claus, that's what Santa has in his pack.

But poverty regiments a person, too. And 1932 was not so long ago. We're not sure times like that will come back. But we want to *try* to make sure they don't. We've got to do *something*.

Right. But let's know what we're getting into; be sure we can get back out.

We need leaders. Need them as never before. Leaders who will offer specific plans—not merely oppose those offered.

We must adjust our production. That may call for controls. But let's have a *time limit* on those controls. Maybe something like the Marshall Plan. Agriculture could be told: "You have these problems. We'll give you this much money, over this many years, to help solve them." Perhaps we could have individual farm contracts with the government. To run 2 years, 5 years, or 10 years. But to end them. In return for subsidies, we'd promise to do specific things. But the choice of entering into a contract would be free.

Perhaps we can adjust production by making the *needed* crops and livestock offer a more promising financial return than the unneeded ones. We're working the other way now—the punishment way. It's not working. If our farm economists are worth their salt, they should be able to offer us a way out—a way to adjust without losing our freedom.

We need to split our farm problem into realistic parts, to fit our many crops and types of livestock and our three vastly different types of "farmers." We need some sensible system—perhaps a sort of food-stamp plan similar to that in the thirties—to get any excess production into the stomachs of our own hungry. And we need to take a sharp knife to some of our ancient marketing systems—so food doesn't leave the farm cheap but end up in the store so high it's priced out of its market.

These aren't hopeless problems. Don't let anyone use trick figures to scare you into believing they are.

But our present law doesn't solve them. We believe the Brannan Plan would make them worse. The time has come to stop speaking in glittering generalities and get down to cases. Down to solving problems—coming up with answers that work. If we don't, the planners and their schemes will go in by default.

Then, we would discover we had swapped our freedom for a bunch of doubtful promises. In a good many countries, men have placed more faith in government than in themselves. From each of these lands, anxious representatives are now coming to us, trying to find our secret—why we are able to do things so much better than they. They want to copy our system.

Let's not copy *theirs*. If we get in too, *we'll* have no place to go for help! **END**

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There's my guide to the
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For generations, that Oshkosh B'Gosh label has been the work wear buying guide of millions and for the best of reasons. They've found that it stands for *economy* because Oshkosh B'Gosh uses only the strongest, longest wearing materials to give more wear for every penny of cost. It stands for *comfort,* because Oshkosh work wear is "tailored to fit" and sanforized to stay that way. It stands for smart, *good looks,* too, and a wide variety of styles and combinations to meet every need in work wear and knock-about clothes.
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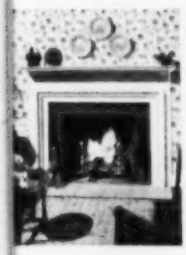

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# Pie-making tips

**To make your pie baking an accomplishment of which you'll be proud, start with a good pastry recipe, heed the tips below. With them you can develop a master's touch**

**By Mrs. R. Lairmore and Martha Quinn**

**To enrich crust:** In place of the water called for in the pastry recipe, sprinkle a like amount of cold milk over flour and shortening mixture and proceed as usual. A more delicate flavor and browner crust result

**To prevent soaking through,** sprinkle lower crust lightly with flour. This applies particularly to fresh fruit and berry pies. Bake pie immediately after adding fruit filling to further prevent soaking through

**To prevent sogginess** in custard-type pies, chill unbaked shell several hours. Then brush pastry with frothy egg white or melted butter. Then bake unfilled shell in hot oven (450°) 15 minutes. Cool; add filling

**Trims.** For a spiral-twist edge, first moisten pastry rim. Cut remaining rolled-out dough into ¾-inch-wide strips. Seal end of strip to rim; then twist pastry in spiral around pan, pressing it firmly in place with your finger

For a knife-fluted edge, trim pastry ½ inch beyond edge of pan; turn surplus under like a hem. Use thumb and index finger of one hand as a wedge and make even scallops by pushing knife handle against edging

For an interlaced edge, trim crust at pan edge; moisten shell rim. Cut ½-inch-wide strips of dough; press 2 strips to shell rim. Interlace strips around pie shell, sealing them to rim. Avoid pulling or twisting the dough

### *Good Plain Pastry*

Makes 8- or 9-inch double-crust pie

**Sift** . . . . . **1½ cups flour**
**½ teaspoon salt**

**Cut in** . . . . **½ cup shortening** with pastry blender or knives until pieces are size of small peas.

**Add** . . . . . **4 to 5 tablespoons cold water** by teaspoonfuls, tossing with fork until all flour-coated bits are barely dampened. Stop!

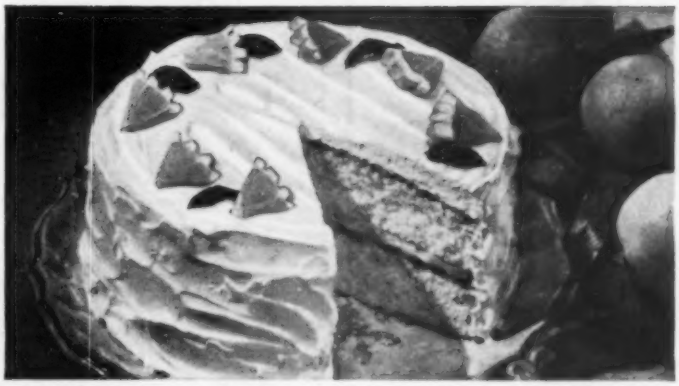
**Press** gently into a compact ball.

**Divide** into 2 equal parts; roll out.

**To prevent overflows,** sprinkle a little tapioca over fruit and berry fillings before adding top crust. Take care not to crowd too much filling in pie and make enough slits in top crust to let steam escape

**Glazes.** For a golden-brown, sugary glaze on mince and apple pies, do this: Mix an egg (or 2 yolks) with 1 tablespoon water. Brush pastry lightly with mixture and sprinkle with a bit of sugar. Bake pies as directed

To get a polished glaze on your cherry pie, try this: Beat an egg white until frothy; then brush it across the top of the crust. If you prefer a browner finish, brush pastry lightly with cream or milk instead of egg white. END

**Here's the gayest,** springiest, happiest cake ever! It's orange-crowned, orange-filled and luscious through and through. Another homemade beauty that shows what a difference Calumet makes! No wonder so many women depend on Calumet to turn out wonderful cakes and to give them superb biscuits and hot breads.

HE'LL CROWN YOU

# QUEEN OF THE MAY!

**And queen of his heart** when he tastes this dreamspun cake!

Don't tell him a real homemade cake like this was *easy*—let it be your secret and Calumet's. Because any cake can be a success if you use *dependable* Calumet Baking Powder.

Calumet's double-rising action—first in the mixing bowl, later in the heat of the oven—is the reason Calumet cakes are always heavenly light and luscious, so beautifully fine-grained.

More and more women are discovering the *wonderful difference* Calumet makes in their cakes, their biscuits and hot breads. That's why more women buy Calumet than any other baking powder.

Try a can of Calumet yourself—and be a baking queen!

## MAY BLOSSOM CAKE

***Attention:*** This recipe has been developed and tested for Calumet . . . the dependable Baking Powder. Use Calumet for best results.

2½ cups sifted Swans Down Cake Flour
2½ teaspoons Calumet Baking Powder
¼ teaspoon salt
1½ teaspoons grated lemon rind
1 tablespoon grated orange rind
⅔ cup shortening
1½ cups sugar
3 eggs, unbeaten
2 tablespoons lemon juice
*Milk (see below for amount)

*With butter, margarine, or lard, use ⅔ cup milk. With vegetable or any other shortening, use ¾ cup milk.

Sift flour once, measure, add baking powder and salt, and sift together three times. Add lemon and orange rind to shortening and cream well; add sugar gradually and cream together until light and fluffy. Add eggs, one at a time, beating thoroughly after each. Add flour, alternately with lemon juice, then milk, a small amount at a time, beating after each addition until smooth.

Turn batter into two round 9-inch layer pans which have been lined on bottoms with paper, then greased. Bake in moderate oven (375°F.) 30 minutes, or until done. Cool. Spread Sunny Orange Filling between layers and frost top and sides of cake with one-half recipe of seven-minute frosting, using 1 egg white and beating only four minutes. Garnish with wedges of sliced orange and mint leaves.

***Sunny Orange Filling***

Combine ⅔ cup sugar, 4 tablespoons Swans Down Cake Flour, and dash of salt in top of small double boiler. Add 1 egg yolk, 1 cup orange juice, and 1 teaspoon lemon juice; mix thoroughly. Place over boiling water and cook 8 minutes, or until thickened and clear, stirring constantly. Add ¼ teaspoon grated orange rind and 1 tablespoon butter. Cool.

*(All measurements are level.)*

**CALUMET BAKING POWDER**

**Double-acting for Double-sure Success**

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•Just what the homekeepers ordered —their own pet, Sani-Flush—quick, easy and sanitary as always—now releases the pleasant light fragrance they chose as it cleans and disinfects toilet bowls. Simply follow directions on can. The Hygienic Products Co., Canton 2, Ohio.

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in the familiar yellow can
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For help with your home planning, furnishing and decorating problems, visit one of the stores cooperating with Successful Farming's home planning service. You'll find a store near you listed on page 89.

## Feels Years Younger

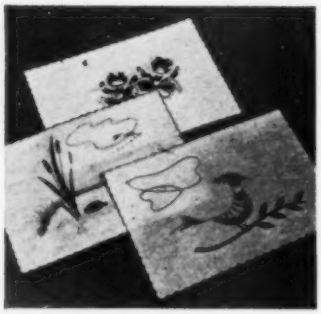
"Sleepless nights due to caffein in coffee had me feeling like an *old woman*—till I switched to POSTUM. Now, with 8 hours sleep every night, I feel — and look — *years* younger!"

**SCIENTIFIC FACTS:** Both coffee and tea contain caffein. So, while many people can drink them without harm—others, *caffein-susceptibles*, suffer nervousness, indigestion, sleepless nights. POSTUM contains no caffein—*nothing that can possibly keep you awake!*

**MAKE THIS TEST:** Buy INSTANT POSTUM today—drink it exclusively for 30 days—*judge by results!* . . . INSTANT POSTUM—A Vigorous Drink made from Healthful Wheat and Bran. A Product of General Foods.

# 12 ways to keep house with paper

**Add convenience to your household tasks with paper. Use as you please, then dispose of with ease**



**Paper place mats** in attractive designs and colors, for use over and over. When they become soiled, whish—away they go into the wastebasket. There's no washing, no ironing. Set of 12 mats in the package

**Dishcloth** of paper is self-cleaning. It sheds dirt, can be used three times a day for six weeks, and is always sweet and clean. Boilproof and greaseproof. When wet, it is as soft as a linen cloth

**Fancy waxed paper** comes heavily waxed, with colorful designs to delight any child as he opens his lunch box. It is especially gay for place doilies, party prizes, sandwiches, tray covers, wrapping

**Pie tapes** keep the juice in the pie and out of the oven. The handy strips of crinkled parchment are moistened, then applied to the edge of juicy pies before baking. The parchment won't burn in oven

**Household parchment** is a real convenience. Use a wet sheet of parchment to keep salad materials fresh and crisp. Cook parchment-wrapped vegetables in boiling water to retain flavor, food value

**Dusting paper** is treated with cleaning and polishing substances. It will not harm the finest finishes on furniture and woodwork. Once over does the job. It polishes, too. Dirt sticks to the paper

*More on page 104*

**. . . and we're old friends**
**WITH NEW FEATURES!**

**NEW SCIENTIFIC**
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- **make us WHITER**
- **we last LONGER**
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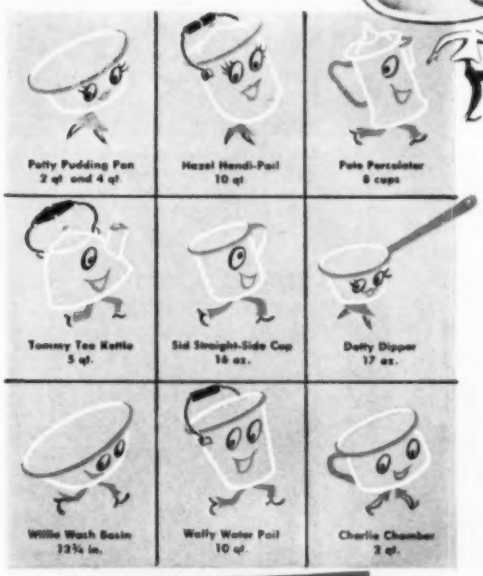


WHEN you make with the pots 'n pans day after day you want 'em easy to work with—pleasant to live with. That's where we come in! The Federal family is the cheerfulest cookware in America. And it's not just because of our bright, cheery red trim: It's because we make *you* feel good . . . like you've got extra help in the kitchen! Thanks to TITANIUM we're brighter, whiter than ever, and it's permanent. All this, and easy on the budget too! If our family isn't working for your family, get cookin' and get acquainted!

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Ben Franklin Stores, Butler Brothers Stores, Scott Stores
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I get them from my feed dealer in the smartest designs and colors—plain white too, of course. The fine quality cotton is marvelous for making dresses, and curtains, and slip covers, and things for the children. Hubbie never knows what I buy and what I make—nor what I save! That's a little secret between me and my budget. Incidentally, my dress and the pattern under my thumb match. Yep, made it myself! Would you have guessed?

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3-B


## 12 ways to keep house with paper

[ *From page 102* ]

**Freezer paper** protects meat from freezer burn, which causes loss of flavor and succulence and makes meats mottled and unappetizing. Wrap your expensive meats in this inexpensive freezer paper

**Washable shelf papers** come in bold, brilliant colors that will brighten your darkest corner or lend sparkle to your gift packages. Washable with a damp cloth, outwear other shelf paper

**Shelf paper** and edging—all in one piece. The paper and edging are greaseproof, waterproof, stain resistant. Will not wilt with the heat and moisture. Use for gift wrappings, cook-book jackets

**Self-sealing waxed paper** sticks to itself, but nothing else! Keeps sandwiches fresher, as it seals out air. It keeps vegetables fresher and crisper, as it seals moisture in. It is tasteless and odorless

**Silver-polishing paper** comes in a handy hang-up pack. To use, wet a clean sheet, wipe article, rinse, and wipe dry. Gleaming results are obtained with less energy. Chemical agent is nonirritating

**Pressing parchment** that you can see through to the pleats you're pressing! The water stays on top—hot steam penetrates the garment. The parchment dries quickly and can be used over and over. **END**

Be sure to see the *new* **Maytag Automatic!** Washing, rinsing, spin-drying, Maytag does it all . . . *automatically!*

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The dirt's out—but wash water stays *clean*. Soil, caught in a special sediment trap, can't recirculate through water or clothes.

You'll get cleaner washes years longer with your Maytag. Right now, Maytags 25 years old and *older* turn out big, weekly washes!

**Enjoy your** new Maytag now . . . pay for it with a liberal trade-in and low monthly payments. Your nearest Maytag dealer is listed in the phone book. Why not call him today for a free demonstration?

The Maytag Company, Newton, Iowa.

# The Maytag range has everything

by *Linda Marshall*
MAYTAG HOME SERVICE DIRECTOR

MILLIONS of Maytag washers have meant dependable service to women everywhere. That's why I'm sure you'll want to see and own the new Maytag Dutch Oven Gas Range . . . it has the same Maytag quality built right in.

This wonderful range has a *Dual Performance* oven. It cooks beautifully the way you've always cooked and also the miraculous Dutch Oven way! You can put an entire meal in the oven and leave it until serving time. After approximately ¼ of the cooking time, the gas turns off automatically, *but your food goes right on cooking by stored-up* heat. Heat can't leak out of your super-insulated Maytag oven.

And the sparkling white Maytag range is easy to keep clean as new. The one-piece top has no dirt-catching surfaces. Burners lift right out and a quick whisk with a cloth makes them gleam.

So many unusual features make Maytag's Dutch Oven the gas range you'll have to see!

Your dealer has SIX new Maytag gas ranges to show you . . . each is fully approved by the American Gas Association for LP bottled or city gas.

**Maytag** WASHERS • IRONERS • RANGES • FREEZERS

# *For* Faster, Cleaner Crop Gathering

**Harvest time is the now-or-never time for getting back the money you've spent for ground preparation, planting, fertilizing and cultivating—plus a profit. Good harvesting equipment . . . Dearborn Equipment . . . can make the difference between a loss and a profit, or between an ordinary profit and an extra good profit. Let the Ford Tractor dealer near you prove this.**

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### For All Combinable Crops

**Here's a six-footer that really makes speed, thus giving it the capacity of a larger combine. It's fast because of its straight-through balanced design and its walker type straw rack with more capacity than that of some twelve-foot combines! No wonder you get crops in faster!**

**And cleaner, too . . . thanks to Dearborn-perfected threshing, separating and cleaning units. Wheat, oats, barley, soy beans . . . any combinable crop at all—including smallest clover and grass seed—grades better, feeds better, sows better or sells better if it comes out of a Dearborn-Wood Bros. Combine. Has its own efficient Ford engine. Use it with the Ford Tractor or any other full two-plow tractor and see for yourself.**

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**Quickly attached to Ford Tractor, built to operate at tractor speeds. Full floating reel, lifted and lowered by Ford Tractor Hydraulic Touch Control, assures clean raking and well formed windrows. The perfect time-saving, work-saving companion for the Dearborn Rear-Attached Mower.**

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### In the Ford Tractor Make it Better than Ever!

**Here's a tractor that's better in 29 really important ways. Now, more than ever, it will be worth your while to ask your dealer for a demonstration of the Ford Tractor on your farm—for *proof* of greater value.**

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***Ask your Ford Tractor dealer for a Demonstration***

**Your nearby, friendly Ford Tractor dealer will be glad to show and demonstrate for you the many features of Dearborn Harvesting Equipment that mean so much for better work, faster, easier operation and higher farm profits.**

**New Dearborn Rear Attached Mower**

**Here's a fully mounted mower, with all the mounted advantages of fast, sharp turning and easy backing, plus effortless lifting and lowering of the cutter bar by Ford Tractor Hydraulic Touch Control.**

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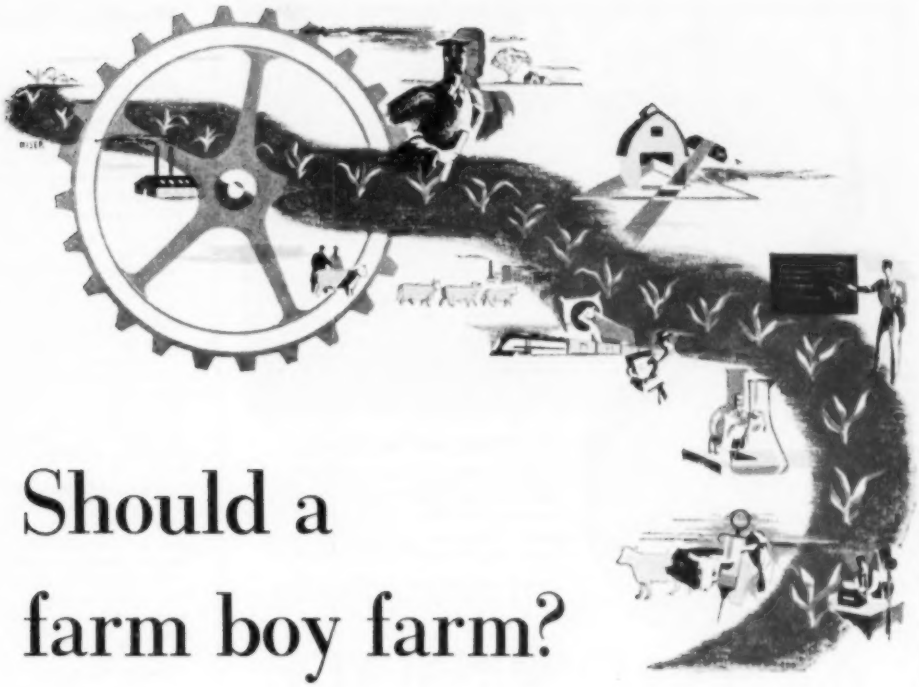
*Ford Farming* MEANS LESS WORK . . . MORE INCOME PER ACRE



# Should a farm boy farm?

**"Not always," says Instructor Dwight Shaw. Here he tells you why, and how you can help your son find his best field**

**By Betty Camp**

As F.F.A. and vocational agriculture instructor at the Earlham, Iowa, Consolidated School, Dwight Shaw's job is to give his boys supervised farm training—practical help with their projects supplemented by classroom instruction. But this is only part of his program. He's also offering each boy job guidance, which is rare in farm communities.

Why does a farm boy need help in deciding on a career? "Because," Dwight will tell you, "every boy who has been reared on a farm and trained in farm work won't make a successful farmer himself. Also, there aren't the opportunities in productive farming to take care of all the boys who come from farms. This boy often needs as much help in finding a vocation in which he'll be happy as does a city boy."

To explain his point, Dwight cites the experience of one boy—we'll call him Lee Potter.

For as long as Lee could remember, he'd been fascinated with "things that ran." He liked to take gadgets apart to see what made them tick, and spent most of his free time tinkering with farm machinery or an old jalopy. On the farm, he was his dad's mainstay when something went haywire with the machinery.

Lee was the Potters' only son and it was taken for granted that he would go into partnership with his dad on the 300-acre farm when he graduated from high school. Then, when his parents were ready to retire in perhaps another 10 years, Lee could take over the farm completely.

The Potters had tried hard to prepare their son for farming. Even before Lee started to school he had his own special duties and chores. As he grew older, his dad encouraged him to take over more and more farm tasks. In 4-H and F.F.A. work, they urged him to complete worthwhile projects.

But Lee often worried them. He took little interest in the field work and often found excuses to keep from milking or feeding the stock—even had to be prodded to take care of his own projects.

When Lee graduated, he did go into partnership with his dad and farmed for a little over two years. But he was unhappy. Finally, he went to work repairing machinery in a local farm shop. Lee has his own farm machinery business now and is doing fine.

Why couldn't Lee farm? He had the background, the training, the chance, everything it takes, it would seem, to make a good farmer. "Everything," Dwight says, "but the basic essentials—a liking to do actual farm work with livestock and growing crops and an earnest desire to learn to farm himself." Lee needed vocational help back in high school. He'd wasted several valuable years.

Does your son have the interest it takes to make a good farmer, or is he, like Lee, better suited for another field? How can you tell? The batteries of tests which help interpret students' aptitudes and interests in some large city high schools are seldom found in farm communities. If tests *are* available, by all means take advantage of them. If they aren't, however, according to Dwight, you and teachers who know your son well can do a great deal to substitute for them.

"It's a matter of watching him in his everyday activities," he says. "Notice what he takes the most interest in and where he does his best work—on the farm, in school, in outside functions.

"Does he like to do actual farm work, or does he [ *Turn to page 108*

STEVENS MODEL 820
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See it . . . handle it . . . throw it to your shoulder. Until you do, you just can't realize what a fine gun—what a great *value*—this new Stevens pump gun really is. Now a greater value than ever—with redesigned wood stock and forearm of selected American walnut. It's a streamlined, six-shot repeater with fast, smooth, dependable action. Look over a few of its fine gun features listed below. Then, see the "820" at your dealer's. *Compare it for price with any other slide-action repeating shotgun on the market.* Write for free catalog.

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**BARREL**—Special alloy gun barrel steel, proof tested. Improved cylinder, modified or full choke.

**STOCK & FORE-END**—Selected American Walnut—larger, fuller for fast swinging and cheeking.

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SAVAGE · STEVENS · FOX · Rifles and Shotguns
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# Feels Years Younger

Are sleepless nights and nervousness acting as a drag on your career?... making you feel old and worn out? Then, read this encouraging statement by a man who feared his advancing age—***until he made an important discovery:***

"Nights of sleepless tossing and turning made me feel old and tired—unable to meet the business competition of younger men. But my doctor put the blame on 'coffee nerves' and suggested I switch to POSTUM. Now, with nervousness gone, I get 8 hours sleep every night and I literally feel *years younger!*"

**SCIENTIFIC FACTS:** Both coffee and tea contain caffein. And caffein is a drug—a stimulant which acts upon the brain and central nervous system. Also—in susceptible persons—caffein tends to produce harmful stomach acidity. So, while many people can drink coffee or tea without ill-effect, others suffer nervousness, indigestion, sleeplessness. But POSTUM contains no caffein or other drug—*nothing that can possibly keep you awake or upset your nerves!*

**MAKE THIS TEST:** Give up coffee—give up tea—drink POSTUM exclusively for 30 days—and *judge by results!* Ask your grocer today for INSTANTPOSTUM—A Vigorous Drink made from Healthful Wheat and Bran. A Product of General Foods.



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## Should a farm boy farm?

[ *From page 107* ]

do it because he has to? Does he work best with his hands or with ideas? Does he prefer being and working alone or with people? These day-to-day activities give the key to the vocation for him.

"It's easy to pick the boy who belongs in farming," he says. "Take Gene Golighly, one of our seniors. Gene doesn't mind rolling out of bed at 5 o'clock in the morning to do chores, or working in the fields till after dark during the harvest season, because he likes farm work. He's eager to succeed with his F.F.A. hog project and often asks me such questions as 'What's the best feeding ration?' or 'When should I market my hogs?'

"With money from his past 4-H and F.F.A. projects, Gene already is farming 40 acres on his own, which he rents from his grandfather. In return for labor, he uses some of the family machinery.

"Vocational agriculture class study of farm management, economics, theory, and the figures behind these often seem dull to Gene—that is, unless he can see how they affect his everyday farm work."

If your son has qualifications similar to Gene's, 9 chances out of 10 he'll make a good farmer. If actual farm work is drudgery for him, he'll be happier in another vocation.

Dwight suggests that the boy who is not cut out to be a "dirt farmer" first consider a related agricultural field where his farm background and training will give him a head start. "Of course you can't pigeonhole him in a definite job," he says. "Usually he isn't this one-sided, and he probably could do a number of jobs well. But you can tell whether his aptitudes tend to be academic, run to business and selling, mechanics, or a combination of these, and then suggest a range of jobs which suit these aptitudes.

"Take the boy with academic ability, who is a good student and makes average or above-average grades. This boy likes to work with ideas; he reads and analyzes well, likes to discuss in class. Usually, in vocational agriculture work he'd rather study new scientific farm developments than try them out. He's more interested in untangling problems which other boys bring to class in connection with their projects than in taking care of his own.

"In extracurricular activities, you'll find him working on the school paper, on the debating team, or in class plays."

Dwight urges all his boys to go on to college if possible. For this boy it's particularly important that he get further training. If he combines academic ability with an interest in people, Dwight suggests work as a county agent, government research work, a teacher in agriculture, or perhaps a country minister or doctor; if he likes to write, farm newspaper, magazine, or radio work will interest him. If, on the other hand, he'd rather work by himself than with people, he may find his answer as a farm economist.

Then there's the boy with a business sense, who is good with figures, likes to work with money and plan ahead. He often combines this with salesmanship ability. "Our farm management class usually interests him," says Dwight, "particularly buying and selling, and the study of current prices and market trends. Unlike the boy with a high academic

aptitude, he's very often successful with his projects, but he *prefers* the paper work of farming.

"In outside activities, he likes to sell tickets and handle money for school functions, or serve as chapter treasurer.

"This boy will make a good farm adjuster for banks or insurance firms, or he might want to start out as bookkeeper in one of the numerous farm businesses with the thought of owning his own business some day. Often, too, he'll make a good farm manager.

"The boy with a high mechanical aptitude, who has qualifications similar to Lee Potter, is easy to pick out in vocational agriculture shopwork. He's skillful with wood- and metalworking, likes to build things and work with machinery.

"This boy will be happiest in work along a farm machinery line, perhaps as a mechanic or, if he likes to work with people, as a machinery salesman. If he combines mechanical skill with business ability and salesmanship, he may later work into the managership of a farm machinery agency. If his grades are high, he might consider college training in agricultural engineering.

"An interest in people is an asset to any boy. If he's at home in a crowd, enjoys meeting new people, and likes social functions, he has a wider choice of vocations than the boy who would rather be by himself. This liking can be developed to an extent. As a boy gains confidence, he conquers shyness and begins to feel more at home around people.

"F.F.A. activities are excellent social training. Working with other boys in committees for our summer tours and social functions, or serving as a chapter officer, helps smooth shyness away.

"Every farm boy won't make a successful farmer himself, but every boy can have a clear picture of good farm living, its problems and drawbacks, its satisfactions and enjoyments. Parents play the biggest role in determining whether or not their son likes the farm. The boy who develops a definite dislike for it and wants to get away from agriculture entirely usually can trace his distaste to his parents' attitude or to an unpleasant home.

"Don't look on your son merely as a source of labor. Give him his own responsibilities so he can realize the pride of accomplishment which comes from his work alone. Encourage his suggestions so he'll feel he plays a valuable part in the success of the total farm operation.

"In his 4-H and F.F.A. work, cooperate and work with his leaders and instructors, for no matter how valuable our help and suggestions are, they go by the way if parents take a different stand at home. See, too, that your son takes entire responsibility for the care and purchase of his project; if he borrows money from you, he should pay it back in full when his profit comes in.

"Above all, don't take it for granted that your son should follow in your footsteps. It takes an all-around man to farm successfully today. He must be able to keep up with new scientific developments, to plan ahead and operate in harmony with the trends. He needs to develop a sound business sense so he'll be able to buy and sell to best advantage, and he should acquire at least the basics of care and maintenance of farm buildings and machinery. In other words, the ideal

[ *Turn to page 110*


# ONE STANDS OUT!

## AMONG IOWA FARM YOUTHS IT'S DELMAR DIERCKS

This 18 year old Mason City, Iowa farm youth has completed seven years of diversified projects in raising baby beeves, bees, pigs, horses and chickens. His beeves have won 14 blue ribbons and 4 purple ribbons in the last 4 years. Delmar was the 1948 winner of the Beef and Pig Showmanship contest at the Dairy Cattle Congress in Waterloo, Iowa. Well known for his Square Dance calling, he was a member of the band in high school and was active in athletics. Delmar completed high school in 1949 and now attends Iowa State College.

## AMONG MOTOR OILS IT'S CHAMPLIN HI-V-I!

Delmar's father, David Diercks, uses HI-V-I motor oil exclusively in his valuable farm machinery! Mr. Diercks knows HI-V-I is a dependable oil . . . dual-solvent processed with a cleansing detergent to remove carbon deposits that foul up engine performance! HI-V-I will stand up under the hardest grind . . . the quality is uniform . . . lubricates completely! Champlin HI-V-I is your best lubrication buy!

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**Decorating advice.** Stores offering **Successful Farming's** home planning service are listed on page 89. Visit the store nearest you for help with your decorating problems.


Advertising in Successful Farming is carried under the guarantee on the index page.

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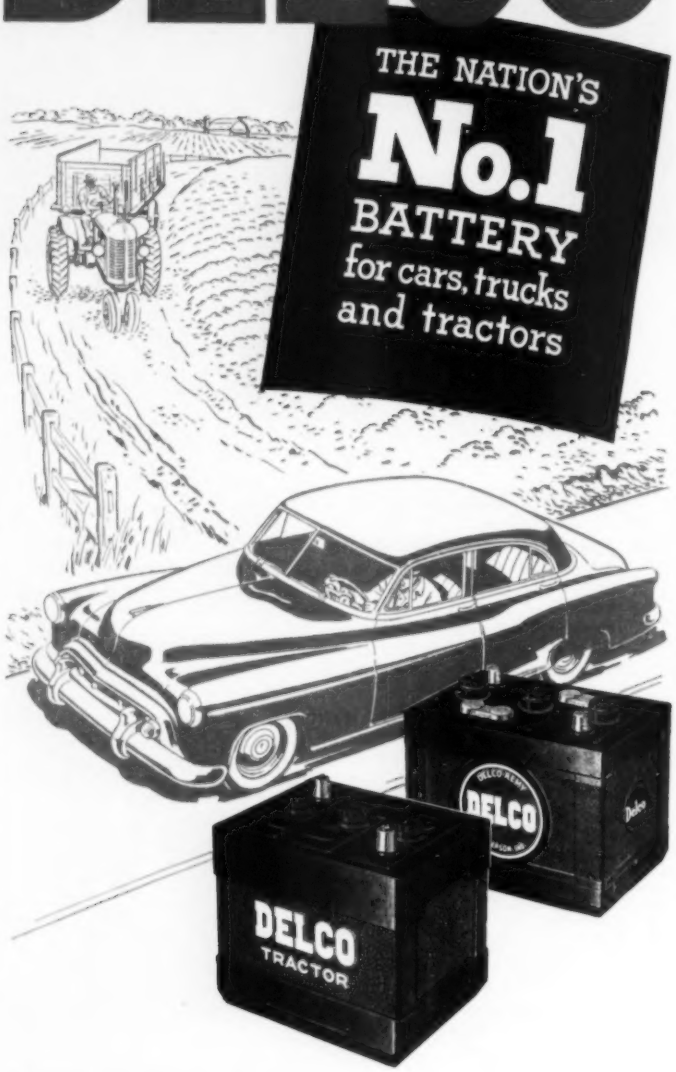
INNES COMPANY, BETTENDORF, IOWA

# DELCO

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**Built by Delco-Remy, largest manufacturer of automotive and tractor electrical equipment, and used in more new cars and trucks than any other make, the Delco battery is the Nation's No. 1 battery. In the tractor field, too, leading manufacturers use Delco batteries as original equipment on their tractors.**

**Delco is "right at home" on the farm; there is a size and type designed especially for your car, truck or tractor. So when you need a battery that will give top performance—a battery that will give sure, quick starting, winter and summer—be sure to see your Delco dealer and buy the nation's "number one" battery.**

DELCO BATTERIES—A UNITED MOTORS LINE . . . DEALERS EVERYWHERE

**Replace with a DELCO Battery**


## Should a farm boy farm?

[ *From page 109* ]

farmer has some of the qualifications needed in practically every occupation. If he has an earnest desire to farm and the ability to learn, he can develop these. If the interest isn't there, he'll be happiest in another field."

Following is a partial list of jobs related to agriculture. It not only shows that farming today is a big and important occupation, but also that it opens the doors to many opportunities. In any one of these jobs the farm boy can capitalize on his experience. The best occupation for him depends on his particular ability and personality.

Work as a team with your school's vocational agriculture and other instructors to help guide your son to a happy future.

### Jobs related to farming

#### Agricultural education

Extension specialist
County agricultural agent
County 4-H Club agent
Rural sociologist
Teacher: vocational high school, college
Field agent for farm processor, distributor

#### Agricultural publicity

Agricultural advertising man
Agricultural radio program work
Farm publication writer, correspondent

#### Agricultural research

In agricultural experiment stations
In U. S. Department of Agriculture
For processors of farm products and manufacturers of farm commodities
For seed and nursery companies

#### Service

Agricultural economist
Agronomist
Animal husbandman
Conservationist
Crops and livestock examiner
Dairyman
Entomologist
Farm superintendent
Marketing specialist
Plant pathologist
Agricultural engineer
Agricultural chemist
Breed association representative
Farm appraiser, real estate dealer
Farm building designer
Farm loan agent, land bank worker
Inspectors of farm products
Landscape architect
Rural electrification specialist
Veterinarian

#### Processing of farm products

Butter, cheese, ice cream maker
Canning plant operator
Farmers' cooperative manager
Livestock buyer
Poultry buyer, produce man
Slaughterhouse worker

#### Manufacturing and distribution

Farm machinery manufacturer, dealer, salesman, demonstrator
Fertilizer manufacturer, dealer, salesman
Farm utilities manufacturer, salesman
Feed manufacturer, dealer, salesman
Insecticides, tonics, serums manufacturer, salesman
Seed-house manager, salesman, dealer
Nursery stock salesman. END

## May garden tips

[ *From page 18* ]

to give bloom later and to occupy this space for the rest of the summer.

Buy started plants from the florist this month. May is the best time for setting them in your garden. This list includes ageratum, geranium, lantana, snapdragons, and so forth.

To prevent leaf spot from damaging your roses again this year, start dusting them now with a fungicide. Dust them every week to protect new foliage as it comes out. Also watch carefully for worms that skeletonize the leaves. If they appear, add lead arsenate to the dust. A spray or dust of DDT will kill the worms also.

To get more enjoyment from gladiolus, stretch the blooming season by making plantings of the same variety at 2-week intervals; or plant varieties with different maturity times.

It still isn't too late to dig and divide phlox and chrysanthemums. Remember, clumps that are too large don't bloom as well as smaller, more vigorous ones.

Window-box planting time is at hand. When getting the soil to fill this box, be sure to use a soil mixture rather than straight soil. A good mixture is composed of 3 parts rich garden loam, 2 parts of leafmold or well-rotted manure, and 1 part sand. Add one or two handfuls of commercial fertilizer to each bushel of this mixture. Always have good drainage in the bottom of your window box.

**Around the lawn.** Get the lawn mower limbered up. To make mowing easier throughout the season, set the roller so the mower cuts the grass high, 1½ to 2 inches. For weed control, apply 2,4-D now to kill out present stands of dandelion, plantain, and other weeds. You'll thus give the grass a chance to make fullest use of the fertilizer applied in March or April. Warning: Be very careful in applying this chemical weed killer. Roses and grapes are easily damaged by it, as are many annual and perennial flowers. Shrubbery, too, can be damaged. Use all precautions. It's safest to use 2,4-D in the amine or sodium salt form and to spray on a calm day.

Prune tips of evergreen branches this month, so they'll become compact and remain neat in appearance.

Prune forsythia, too. In the southern portions of Pennsylvania, Ohio, and Illinois and in Missouri and Oklahoma, where these beautiful shrubs have bloomed, prune as soon as they have finished. Cut out one or two of the oldest canes and head back the other older branches. This encourages new shoots.

Those newly planted trees and shrubs should be watered and mulched now.

**With the fruit plantings.** Strawberries, too, have their troubles. The strawberry slug and the leaf folder are perhaps the strawberry's most common insect enemies. If you catch these insects when they first start, control is easy. Use DDT or lead arsenate spray, or dust until the plants start blooming. Then switch to a 1-percent rotenone spray or dust, applied at weekly intervals.

For a spray schedule to suit the home fruit trees and plantings in your locality, check with your local county agent or state experiment station. They will give you recommendations for your state. **END**

**with a HUPP Dual OVER and UNDER Drive**

Yes, you can easily cultivate 10 to 20 acres more in a day with your Ford, Ferguson or Ford-Ferguson tractor! How? By putting in a Hupp *Dual* Over-underdrive gives you 10 added speeds (8 more in Ford-Ferguson 9N tractors). Three of these speeds are between regular 3rd and 4th gears, to let you sweep-cultivate at 5½ to 8¼ miles per hour without racing your engine. You can also pull a wider rotary hoe—yet pull it at 9½ mph. Save time on the road, too, with up to 19 mph. in 4th overdrive. In underdrive, you get *more pull*, and speeds as low as 1½ mph.

**Standard Power Take-Off Speed at FULL engine power**

In underdrive, you can use full engine speed and power to get maximum drawbar pull, yet keep power take-off at ASAE standard speed for combines, corn pickers, forage harvesters, hay balers and similar equipment. Then, in overdrive, you get a high power take-off speed for direct drive of tractor-mounted spray pumps.

**Be Sure You Get a HUPP Dual OVER and UNDER Drive**

Remember, only a *Dual* over-underdrive gives you such a great range of tractor and power take-off speeds to *help you save time, save fuel* or *pull more* with your Ford or Ferguson tractor. ALSO, *Overdrives* for Farmall Regular, F-12, F-14, and F-20 tractors—all manufactured and guaranteed by Hupp, for more than 40 years manufacturers of precision automotive products. Send coupon below for free folder.

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# A New Bed for a Restless River

*how "Your Unseen Friend" helps keep the flood from your door*

Old Man River never rests easy.

All year long, he twists and turns in his bed. And, in the spring, he sometimes forgets he's old. He leaves his bed, spreads across the lowlands, floods homes, and sweeps over rich farm lands on which cities depend for food.

When this happens, the flood control experts get busy.

They bring up dredges to make a new bed that's straighter and wider and deeper . . . so the river won't overflow its banks.

These dredges are big and tough and well-designed.

They *have* to be. They must gulp tons of mud, sand, and gravel. Force it up through pumps at high speed. And then pump it out through big, long steel pipes onto the surrounding land.

This calls for tough metal parts. And that's where Nickel comes into the picture.

Sometimes it's used in the cutter heads that chew up gritty silt.

Sometimes it's used in the pumps as well. It may be in the form of Nickel steel castings or Nickel cast iron ("Ni-hard"). But whatever the form, these Nickel alloys have what it takes to stand up to the harsh scraping action of fast-moving sand and gravel.

When you see a powerful dredge making a new river bed, or a big bulldozer clearing off land . . . when you see a lightning-fast jet plane, or a huge trailer truck . . . remember that Nickel figures importantly in the dependability of each.

You don't see the Nickel because it's intermixed with other metals . . . adding toughness, hardness, endurance, and other special properties. That's why Nickel is known as "Your Unseen Friend."

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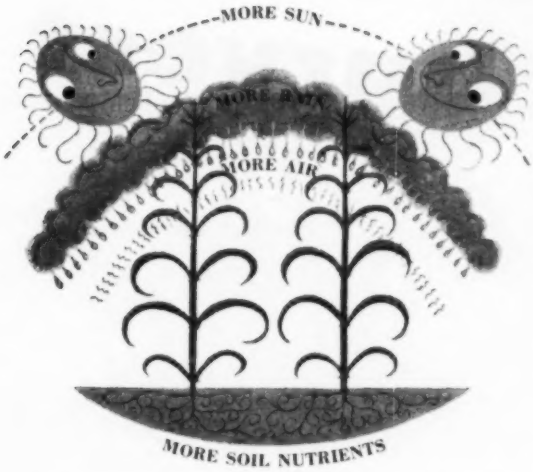
**...Your Unseen Friend**

**Two rows of corn, two of beans give . . .**

# 20% more corn




**Every row is a high-producing outside row**

If you own or can rent a self-propelled combine, you may want to plant some of your corn and soybeans in the same field this spring, using alternate double rows of corn and beans. If you do, chances are you will get an increase in your corn yield of as much as 20 percent over your regular corn-planting system.

The Production and Marketing Administration reports that if the corn and soybeans are planted in equal-width rows, and the same number of rows of each, only the area actually planted to corn counts against your corn allotment. In other words, a 10-acre field, with corn and beans evenly alternated, would count only as 5 acres of corn.

Three years of research at the University of Illinois College of Agriculture—and the experiences of a number of Cornbelt farmers—have resulted in plenty of evidence that this new system of alternate corn-soybean planting is not just a passing fad. Corn yields are definitely boosted, with little or no decrease in bean yields.

A. L. Lang, agronomist at the University of Illinois, was one of the first men to make practical use of this alternate planting technique in the Cornbelt. He started in 1947, continued the work in 1948. Last year, he set up controlled experiments with alternate planting of corn and soybeans on experimental fields in three different parts of the state—Urbana, Hartsburg, and Joliet.

When Lang figured the yields for the three fields, he found that the corn planted with soybeans had yielded an average of 20 percent more per acre than the corn on the check plots, planted in the conventional manner. The average yield of corn from the corn-bean planting was 111.1 bushels per acre, compared to 92.4 bushels for the plots with all corn—an increase of 18.7 bushels.

On the Urbana field, the corn on the alternate planting plot yielded at the rate of 121.1 bushels per acre, compared with 109.9 bushels for the all-corn plot. That's a difference of 11.2 bushels in favor of the alternate system. At Hartsburg, the increase credited to alternate planting was 22 bushels per acre—119 bushels compared to 97 bushels for the plot with all corn. At Joliet, the difference was 22.7 bushels per acre, with alternate planting again on top. The corn in alternate rows yielded at the rate of 93.1 bushels per acre, compared to 70.4 for the check plot.

All these yield figures are for planting in the standard-width rows of 40 inches, with a planting rate of 14,000 plants per acre.

Even bigger increases were credited to alternate planting by three Illinois farmers who reported to Lang. Cecil Walker, who farms one of the Sibley Estate farms in Ford County, reported that he tried out the alternate corn-soybean planting on one of his fields. The yield of corn was 96 bushels per acre, compared with 72 bushels for the field he used as a check. That 24-bushel difference amounts to more than a third increase.

On one other Sibley farm, Francis

[ *Turn to page 115*

**By Hadley Read**


**Use this one fly spray**

**on the cows**

**and in barns**

**SAFE ANYWHERE**
*because it contains*
**METHOXYCHLOR**
*Recommended by the U. S. Dept. of Agriculture*

**USE** it on milk cows *and* in dairy barns and milk rooms. Safe on young stock and stock to be slaughtered. Safest long-lasting insect killer yet discovered.

**EFFECTIVE**—Kills hornflies, stable flies, houseflies, mosquitoes, fleas, and lice.

**LONG-LASTING**—One spraying normally is effective for several weeks.

**ECONOMICAL**—One pound is enough to spray about 25 head thoroughly, or to cover 1,500 square feet of wall surface.

**EASY TO USE**—Comes as wettable powder ready to mix with water.

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**DAIRY CATTLE SPRAY**

BETTER THINGS FOR BETTER LIVING
. . . THROUGH CHEMISTRY

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—Tuesday nights, NBC, Coast to Coast

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1. **Hydraulic Header Lift Control*** *at steering wheel.*
2. **Auxiliary Hand Clutch** *for stopping tractor without interrupting power flow to harvester.*

**Optional — Can be operated by tractors having hydraulic pump.*

**$EED** can rightfully be spelled with a dollar sign this year . . . dollars *you* can harvest.

The nation-wide shift toward soil-building forage farming in 1950 will require an enormous quantity of seed. Enough grass, alfalfa, clover and other legume seed is needed to plant *51 million acres*, replacing soil-depleting crops. Present seed production is scarcely half sufficient.

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Immediate cash is not your only reward for an ALL-CROP harvest. Better still, seed crops are soil-builders. Your land will be mellowed and enriched for more productive farming to come. See your dealer—ask him.

**ALLIS-CHALMERS**
TRACTOR DIVISION MILWAUKEE 1, U. S. A.

## 20% more corn

[ *From page 113* ]

Pretzleff reported that the corn in alternate double rows with beans yielded 62 bushels per acre compared with 45 bushels for another plot in all corn. That's a 17-bushel increase, amounting to 37 percent.

In Adams County in the western part of the state, Travis McAllister planted 10 acres to alternate four rows of corn and four rows of beans. He compared this system with another 10-acre field planted all in corn. The corn in the alternate planting yielded at the rate of 90 bushels per acre, while the field that was all in corn yielded only 70 bushels per acre —20 bushels less. Ten acres in beans showed no apparent difference in yield.

Lang started studying the effects of alternate corn-bean planting three years ago, on the Howard J. Babb farm a few miles north of Champaign. As most of you remember, 1947 was a dry year. In Lang's experiment on the Babb farm, the corn in alternate rows outyielded the check planting 27 bushels per acre.

In 1948, which was almost a perfect corn year, the alternate planting on the same Babb farm gave a corn yield of 103 bushels per acre, 15 bushels per acre higher than the 88-bushel yield registered for the check plot all in corn.

Lang points out that the advantages of alternate corn-soybean planting are not so unusual, when a person stops to think about it. Research workers for many years have known that the outside —or border rows—of their experimental plots usually gave higher yields than the inside rows. For that reason, these border rows are not included in figuring yield data. Farmers who have had a cornfield bordering on an oats or bean field have noticed that the outside rows are heavy yielders. As Lang explains it, alternate planting of corn and soybeans tends to make every corn row an outside, or border, row.

About the only problem you face in using the alternate planting system is the harvesting of the beans, which normally would be combined before the corn is picked. This is no problem if you own or can hire a self-propelled combine.

There are no planting or cultivating problems. In planting with a 2-row planter, one box is filled with beans, the other with corn. With a 4-row planter, the inside boxes are filled with either beans or corn and the two outside boxes with the other.

Lang plans to continue the alternate planting studies this year. More evidence is needed on the effect of changing the rate of planting, either through narrowing the rows or upping the planting rate within the row. Some data was collected on this question last year. Increasing the planting rate from 14,000 per acre to 20,000 per acre resulted in a 4.6-bushel decrease in corn yield on the plots all in corn.

But that increase in planting rate gave a 32.6-bushel increase for the corn planted alternately with beans. In other words, at a planting rate of 20,000 plants per acre, corn planted solid yielded 105.3 bushels, while the corn in alternate rows yielded 153.7 bushels—a profitable difference of 48.4 bushels per acre. **END**


**Cobey POWER DRIVEN MANURE SPREADERS**

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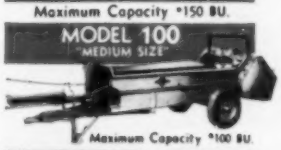
**MODEL 150**
"WORLD'S LARGEST"
Maximum Capacity *150 BU.

**MODEL 100**
"MEDIUM SIZE"



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Cobey POWER DRIVEN Spreader
EXCLUSIVE TRADE MARK REGISTERED U.S. PAT. OFF.

ONLY COBEY OFFERS YOU ALL THESE FEATURES

- All mechanism driven direct from tractor power take-off.
- Fine shredding - uniform spreading.
- Easy conversion to a self-unloading wagon.
- All-steel - made of Perfect-Alay - resists rust 4 to 5 times longer than regular sheet steel.
- All operating parts enclosed or covered.
- Eight-speed control from tractor seat.
- Shafts and wheels turn on roller bearings.

MAIL THIS COUPON NOW

THE PERFECTION STEEL BODY COMPANY
Dept SF-50 Galion, Ohio, U. S. A.

Please send me complete information on items checked.

☐ Power Driven Spreaders ☐ 11-A, Wagon Gear
☐ 31-A, Dump Wagon ☐ Utility Wagon Boxes
☐ 21-A, Hi-Speed Wagon ☐ 2-Wheel Trailer
☐ 2-Wheel Tilting Platform Wagon

Name _____
Address _____
City _____ State _____


**Decorating advice.** Stores offering **Successful Farming's** home planning service are listed on page 89. Visit store nearest you for help with decorating problems.


*Now* THE NEW WHITE CHIEF **10 FEET** *long!*

Yes, here it is—that extra length you've always wanted. 120 inches of accurate, more useful measuring ease. Jet black markings on a wear-resistant, acid-resistant snow white blade.

Carlson quality throughout with famous 10-second blade change economy and the new convenient *swing-tip*...a *real* value at YOUR HARDWARE DEALER.

Just be sure it's the *White Chief* by *Carlson*.

P.S. And don't forget to get an extra blade to keep on hand as a "spare."

Blade produced under Pat. No. 2599209

**CARLSON & SULLIVAN, INC.** MONROVIA, CALIFORNIA

CARLSON

IN ALL THE WORLD

**No Other Washer Like DEXTER TWIN TUB**

**No Other Washer Gets Clothes SO CLEAN! SO FAST!**

Two washing tubs—an exclusive feature—is the reason why Dexter Twin washes quicker—cleaner—easier. Yes—DEXTER TWIN washes, rinses, wrings—all at the same time. It turns out a tubful of super-clean clothes—ready for the line—every four minutes.... That's world-record speed—your complete washing is through in less than an hour. Dexter Twin is TODAY'S BIGGEST WASHER VALUE! It's today's best buy!

See DEXTER TWIN TUB at your dealer's today — or write for FREE illustrated booklet —"Two Instead of One."

DOES YOUR WEEKLY WASHING IN LESS THAN ONE HOUR

Exclusive Dexter Double Sudsing gets clothes super clean—washes in lukewarm suds of First Tub, then in hot, cleansing suds of Second Tub.

☆ TWIN TUB

**DEXTER ★**

*America's Finest Washer Since 1894*

☆ SINGLE TUB

Your Dexter dealer invites you to see the great new Dexter models—to see the many exclusive Dexter features that offer greatest value in washer history. Corro-Vane Agitator—Turn-Flo Tub—Super-Century Mechanism—Gentle-Action Damp Drier bring you extra advantages that make Dexter the finest of fine washers.

***Compare--see Dexter before you buy!***

See your Dexter dealer today or write for FREE literature.

THE DEXTER CO., Fairfield, Iowa

# *The new-* movies

**By Betty Camp**

When the Frank Gilbreths were married at the turn of the century, they decided to have an even dozen babies. Why? Because they come **Cheaper by the Dozen.** The hilarious, real-life adventures of this fabulous family were first written by 2 of the 12 children. Now the book, which climbed to a best seller in 1949, has been filmed in Technicolor.

Clifton Webb of "Mr. Belvedere" fame plays Pop, the industrial engineer famous for his time-and-motion studies. The role of his wife, an eminent psychologist and lecturer, is a natural for Myrna Loy. Screamingly funny are their attempts at child psychology, discipline, and education for the brood.

For instance, Dad insists on discussing educational subjects at dinner because "there is no reason we shouldn't take advantage of the delay to learn." He refuses one son's request for a dog "because any pet which doesn't lay eggs is an extravagance." He teaches the efficient way of eating an apple, "beginning at the North Pole and eating straight down to the South Pole."

A record player is connected in the bathroom so the children may listen to French and German language records without wasting time. Regularly, Dad calls a Family Council meeting to organize the housework. When the entire family have their tonsils out, Dad takes advantage of the mass operations to have a film made of them "so we can show these doctors how to speed things up by eliminating waste motions." See what I mean?

Dad occasionally loses his temper, too. Like the time Ann (Jeanne Crain) and Ernestine (Barbara Bates) beg him to let them dress like other girls. Dad snorts, "Flaming youth! Rolled stockings! Bobbed hair! Painted knees! Not while I'm alive!"

Along with the comedy there's human drama and sadness in the story of the

**Dad scolds his oldest daughter for wearing paint on her face in *Cheaper by the Dozen***

Gilbreths. And you'll recognize some of your own family too, for the Gilbreths are as typically American as apple pie and corn on the cob. (Fox)

Full of suspense which makes your spine tingle is MGM's **The Conspirator.** Robert Taylor portrays a handsome officer in the British military service who is a paid Communist agent. No one suspects, and he has little trouble locating top army secrets and relaying them on to Moscow.

There's only one hitch in the smooth working chain—a hitch which eventually leads to the conspirator's downfall. He falls in love with an American girl (Elizabeth Taylor) who, not suspecting his Communist loyalties, marries him. The Reds rebel and demand that Taylor liquidate his beautiful wife.

The picture is one long tale of anti-Russian propaganda, but the acting is good and the action fast. Obviously, the movie is not for children.

In **A Woman of Distinction,** Rosalind Russell plays a young and distinguished dean of a girls' college, entirely engrossed in her career. Men (not even Ray Milland, the laugh-provoking professor) interest her not in the least. That is, for a while.

In the course of action, Roz manages to get herself involved in quite undignified situations. She speeds dizzily in a hot-rod car, goes on a mad ride on a breakaway bike, falls into a bed of poison ivy, and is finally hauled into court.

The picture is funny enough, but not quite up to Rosalind's former pictures. (Columbia)

## Good films

### for home or meeting

To a busy farm homemaker, time is important in preparing meals. The Armour and Company film, **Quicker Than You Think,** will help even the experienced cook cut her time spent in the kitchen and will bring her up to date on what's new in the art of meat cookery.

The film clearly demonstrates the ABCs of meat preparation; the successful way to roast, broil, braise, and stew; and the best meat cuts to use for each. Even

[ *Turn to page 118*

**Happy days are short-lived for Elizabeth Taylor and Robert Taylor in *The Conspirator***

PHILCO *is the word for Quality in your kitchen!*

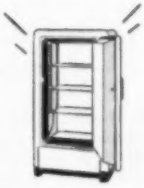
*in Refrigeration*

See the magnificent new 1950 Philco refrigerators at your dealer's now . . . luxury equipped from 7 to 14½ cubic feet. You'll see true zero-zone, full-width built-in freezers—fully adjustable shelves—the new Quick Chiller . . . and many other exclusive Philco features. At prices that make Philco America's top refrigerator value.

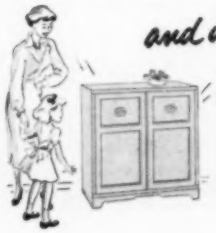
*in Electric Ranges*

*Smokeless broiling at last* with the sensational new Philco "Broil-Under-Glass" Electric Range. No soot, no smoke, no stain! Two superb ovens—fully automatic Banquet and Thrift Oven. Deluxe automatic controls cook entire meals automatically. See all the great Philco Electric Ranges for 1950.

*in Home Freezers*



From 4 to 30 cubic feet—140 to 1050 pounds food capacity—chest models and uprights—temperatures as low as 15° below zero for sharp freezing—frozen storage at scientifically approved zero-zone temperatures. The greatest value in home freezers today.



*and in your living room—this great new PHILCO phonograph!*

Here's your *greatest value in 3-speed* radio-phonograph. Plays all records, all sizes, all speeds fully automatically. Philco Super-Tone Reproducer gives finest tone ever achieved from recorded music. With new Philco super-sensitive AM radio. In beautiful Mahogany veneer cabinet.

# "It's what we believe in"

**Symbolic of man's aspiration and belief – a monument, serene in surroundings of peace and beauty, reaching heavenwards as a silent manifestation of faith . . . a symbol of love and honor to the dead, a constant source of inspiration to the living.**

When you choose Rock of Ages for your family monument, you have the deep satisfaction of knowing that the original beauty of this lovely blue-grey granite and the clarity and meaning of its sculptured lettering and design will remain eloquent for many future generations to see and to understand. For Rock of Ages has a unique texture which successfully resists time and the elements. That's why every Rock of Ages Family Monument is fully backed by a bonded guarantee to you, your heirs or descendants.

Many thoughtful people choose their family monument – as well as their cemetery plot – *before the need arises.* **Write for "HOW TO CHOOSE A FAMILY MONUMENT", a large illustrated book available without charge or obligation.** Simply write to Rock of Ages, Barre, Vt. Or ask for a copy from the Rock of Ages Dealer in your community. You'll find his name in the Classified Section of the Telephone Directory.

ROCK *of* AGES

BARRE GRANITE FAMILY MONUMENTS

**Ask your dealer for proof of permanence in any cemetery**


## The new movies

[ *From page 117* ]

the man of the house will benefit by the carving tips. Free, from *Armour and Company, Chicago 9, Illinois.*

Major threat to your corn crop is **The Corn Borer.** This informative film was produced by the Iowa Agricultural Extension Service to give farmers a better understanding of the serious problem.

In functional color, it shows the life cycle of both first and second broods, with the newest control methods fitted into the cycles. Excellent for farm group meetings. Rent from *Iowa State College, Visual Instruction Service, Ames, Iowa.*

**The Human Bridge,** full color film, shows how a new car is built—from first sketches to finished product. You see the planning, designing, and testing. You hear the pounding of intricate machinery as the auto is put together and the voices of the men who do the work. The picture was produced by the Wolff Studios of Hollywood with musical score by the Los Angeles Philharmonic. Free from the *Ford Film Library, Ford Motor Company, Dearborn, Michigan.*

**Farmer of the Year** tells the story of an F.F.A. member who convinces his dubious father that crop yields can be increased by building up the eroded soil on their farm.

With the help of a soil conservation worker, they survey to locate contour lines, analyze soil types, fill gullies, seed for grass waterways. Result: In one year's time, final crop yields are greatly increased, and even Pop is convinced.

The film is a testimony of the value of F.F.A. work, is informative and entertaining. Free from *John Deere Company, Moline, Illinois.*

Above educational films are all for 16mm projector.


## You can make more money

If you are dissatisfied with your job and want to get ahead during the next few important months of 1950, here's your chance in a service-sales job with *Successful Farming.* It's a job that offers far-above-average earnings. It's a job that will give you the satisfaction of providing a service to the farmer.

To learn more about this job and the opportunities it offers, write to our closest Branch Office listed below. Give us a brief summary of your past history (farm background preferred but not necessary), the make and year of the car you own. If you qualify, we'll arrange an interview.

Training is at our expense.

**DAKOTA**
Sid Beebe
Box 555
Sioux Falls,
South Dakota

**ILLINOIS**
Lloyd Akins
Box 537
Elgin, Illinois

**IOWA**
Charles Fackler
211 North D St.
Indianola, Iowa

**MICHIGAN**
Art Schultz
Box 55
Grand Rapids,
Michigan

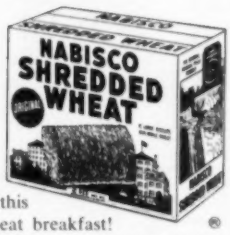
**MISSOURI**
Tom Reid
818 Wyandotte St.
Kansas City,
Missouri

**OHIO**
C. R. Canfield
Box 511
Ravenna, Ohio

SUMMER AHEAD
CHAMP
INSTALL NEW
CHAMPION
SPARK PLUGS

# FAMILIES!

Give yourself more "to go on" today with **NABISCO SHREDDED WHEAT!** It's America's great body-building breakfast because




Nothing added to mar the *natural* goodness of this 100% whole wheat breakfast! Even the bran and wheat germ left in for your nourishment! Delicious – hot or cold. Always get NABISCO SHREDDED WHEAT!

NATIONAL BISCUIT COMPANY

**NABISCO SHREDDED WHEAT and MILK will help provide—**

.....**Carbohydrates** — for ENERGY at study and play.

..**Calcium** — for building STRONG TEETH & BONES.

...**Protein** — for nourishing MUSCLES and TISSUES.

.....**Vitamin $B_1$** — for aiding APPETITE and DIGESTION.

.....**Iron** — important for red BLOOD.

**START GIVING YOUR FAMILY THESE BENEFITS NOW!**

the breakfast full of **POWER** from Niagara Falls!


# *Tips for the* cook

**Ideas that spark up your meals and make food preparation easier**

● If you haven't an egg poacher, place rings from 2-piece jar lids in skillet containing simmering water. Slip an egg in each ring; cover skillet. Remove rings, then eggs

● Try this tasty variation. Wrap bacon strips around peeled bananas and bake at 350° (moderate) until bananas are tender and bacon crisp. Serve with homemade muffins

● An occasional whisk across the butter with blades of your kitchen shears eliminates stickiness usually connected with cutting marshmallows, dates, and candied fruit

● Lay thin slices of cheese or grated cheese on the top of just-baked apple pie. Return to moderate oven (325° to 350°) until cheese is melted. Serve while cheese is still warm

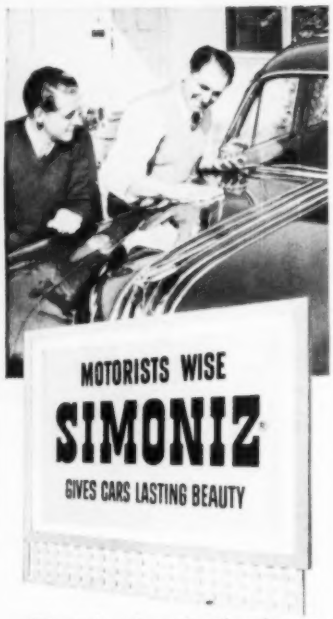
● Cut leftover plain cake into squares. Place a drained pineapple slice on each. Top with almond-flavored meringue and toasted almonds. Brown in slow oven (300° to 325°)

● Delicious to munch with hot soup, chilled tomato juice, and salads are potato chips sprinkled with shredded cheese and onion salt. Broil them until the cheese bubbles

● Cook franks in water 8 minutes; slit lengthwise. Stuff with 2 cups mashed potatoes; 1/3 cup chopped onion; 1/4 cup each pimiento, cheese, parsley. Brown under broiler. **END**

# WHY WASTE TIME

## with "temporary polishes?"




**Simoniz gives lasting beauty and protection to the finish —with fewer applications!**

The amazing sparkle Simonizing gives your car lasts for months . . . protects and preserves the finish . . . keeps colors from fading! Always insist on world-famous Simoniz and Simoniz Kleener for your car!

Newer cars need only Simoniz to clean and beautify the finish . . . a single, simple operation. On older cars, first use Simoniz Kleener (Liquid or Paste) to clean the finish. Then Simoniz for lasting beauty.

THE SIMONIZ COMPANY, CHICAGO 16, ILL.

THE SOONER YOU SIMONIZ YOUR CAR THE BETTER!




## Hard water

[ *From page 46* ]

add drops, counting them, until good suds form over the top of the water. The approximate hardness of the water, in grains per gallon, will equal 2½ times the number of drops of soap used. For instance: if you add 12 drops of soap, you multiply 12 by 2½, which indicates a water hardness of 30 grains.

("Grain" is actually a measurement of weight, equal to 1/7000 of a pound. As little as 30/7000 of a pound—referred to as 30 grains hardness—is considered very hard water.)

If water is from 0 to 3 grains hardness, it is soft; from 3 to 6 grains hardness is moderately hard; 6 to 12 grains, hard; and from 12 to 30 grains is very hard. To find *exact* hardness of water, send a sample to your state college or university.

**Prescription:** Your prescription will depend on whether your case of hard water plague is acute or mild. If you have moderately hard water (up to 6 grains hardness), you can soften it satisfactorily with such water-softening agents as borax, sal soda, and water "conditioners." However, care must be used, for if too much softener is used, the water may become alkaline enough to damage fabrics, particularly rayons, silk, and wool.

It isn't a simple case of the more softener you dump in, the softer the water. Time must be allowed for these chemicals to react with the hardness. The effect of the unreacted chemicals in the water may injure the skin or clothing.

Borax is safe to use to soften water in which silks, woolens, and other delicate fabrics are washed. It should be added to the water, time allowed for the reaction (about 10 minutes), and the scum removed from the surface of the water before the soap is added. The same rule applies before adding soap to water softened by washing soda or sal soda, though they are stronger than borax. If properly used, however, they are harmless to cotton and linen fabrics, but will harm silk and woolen materials.

Water normalizers are another form of packaged softeners. These normalizers, or "conditioners" as they are sometimes called, leave water clear after it has been softened. They also dissolve scum which may have been left on fabrics from previous less-effective laundering.

Water conditioners can be added to the water with the soap, as they do not form a scum with the salts in hard water. You can safely wash your finest clothes (and even your hair!) in water softened with a water normalizer. Yet it will do the water softening job needed for the weekly washing. As with borax, sal soda, and washing soda, you shouldn't add too much normalizer to the water.

To find the amount of water softener needed for the water on your farm, put one gallon of hot water in a dishpan. Add ½ *teaspoon of softener*. Mix well, allowing about 10 minutes for the reaction. Fill a quart jar half full with the softened water, and add ½ *teaspoon of soap*. Cover and shake. If good suds bubble up, the water is soft. If not, start over with fresh water, using 1 *teaspoon* of softener per gallon and ½ *teaspoon* of soap per quart of water.

Continue this, using fresh water each time, until good suds are formed. Write down the amount of softener used to soften

**WHAT'S A KIDNEY WORTH?**

No 'cure-all' claimed — but ask your doctor about the injurious effects that can result from a 'rough-riding' tractor. Then find out how a FLOW-TING spring-hydraulic seat support floats you in solid comfort over roughest-toughest going. Instant adjustment "tailors" the ride to your weight and field conditions.

*Moderately priced; fits most tractors; easily installed—and now available with new slide adjustment feature, gives 7" back-forth travel.*

Thousands of satisfied users swear by the health-saving comfort and extra operator-efficiency that Flow-Ting seats assure. Let us tell you why.

Knoedler — WRITE FOR FREE LITERATURE, NAME OF YOUR NEAREST DEALER.

KNOEDLER MANUFACTURERS, INC.
DEPT. T-8 STREATOR, ILL., U.S.A.

**OTTAWA Tiller & Mower**

Powerful 2 H-P Red Seal Continental Motor. Attachments for mowing, tilling, power take-off, cultivating and spraying. Lowest prices in history. Two speeds and free wheeling. Thousands in use. Rotary mower only $89. Made by men with know-how. Now in 47th year. Free details.

OTTAWA MFG. CO., 5-823 Lawn Ave., Ottawa, Kans.

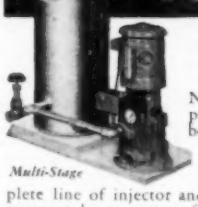
**NEW FARM-WISE ELECTRIC DEHORNER**

Removes horn buttons and stags here growth in 15 seconds. Safe, easy operation. Approved by leading agricultural colleges and dairy cattle authorities. Use on most calves regardless age. Saves 10 to 15 cents AC or DC. Introductory offer postpaid $5.95. Check or money order. Satisfaction guaranteed or your money back. Order now.

$5.95

Calif-Teria Sales, Inc., Dept. H, Fort Wayne 3, Ind.

**Learn About UNIVERSAL PUMPS**




MORE WATER LOWER COST

No matter what your pumping needs may be...check first with Universal...the "performance pump." A complete line of injector and centrifugal type pumps and water systems for homes, farm and industry, engineered to exceed conventional type pumps in capacity, pressure and lift. Both Single-Stage and Multi-Stage pumps with a wide range of uses.

*Inquire today. Send for free bulletin.*

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1440 San Pablo, Berkeley 2, Calif.

Please send illustrated literature on Universal Pumps and the name of my nearest Universal Dealer.

Name _____

RFD _____ City _____ State _____

one gallon of water. Multiply the amount of softener per gallon by the number of gallons you want to soften, and use that exact amount of softener.

Synthetic detergents do not form a soap curd or leave scum deposits on fabrics even when used in hard water.

They are test-tube products, made from fats and oils or from by-products of petroleum refining. They are not soaps, but can be used for the same purposes.

With synthetic detergents, you may have billowing suds, or hardly any suds at all. The suds formed do not necessarily indicate effectiveness of the cleaning power. With sudsing synthetic detergents, the suds may not last as long as soapsuds, but the cleaning action does not necessarily stop when the suds disappear. You can buy heavy-duty synthetic detergents for washing cottons and linens, and light-duty synthetic detergents for rayons and woolens. Read the labels on the package before you buy.

**Prescription for acute hard water:** Water of over 7 grains hardness is probably best softened with water-softening equipment. In some farm areas, this equipment is available on a rental basis and is maintained by the water-softening company. Otherwise, the equipment may be purchased and maintained by the owner. The original installation will cost from $115 to $350.

Water-softening tanks look something like water heaters and are built in single-tank and two-tank styles. They are connected into the water pressure system so that the water is sprayed over a bed of zeolite (a chemical compound containing sodium) and passes through one or more beds of filtering gravel.

The zeolite takes the dissolved limestone out of the water. In doing this, the zeolite loses most of its sodium content. Common salt (sodium chloride) is used to renew the zeolite bed.

When the zeolite in the single-tank softener needs renewing, about once a month, it is necessary to open the top, add a certain amount of salt, then be sure that all the salt has been washed out before returning the water softener to service. Single-tank softeners cost less.

In the two-tank softener, the second tank is kept filled with salt and brine and is called a brine tank. With a two-tank softener, the brine is always ready for renewing the zeolite.

The tank or tanks should have legs to raise them a few inches above the floor, so that floor dampness will not rust or corrode the tanks. A single three-way control valve on a two-tank system makes correct renewing more sure and simple than where a series of separate valves must be turned. **END**

## Fashions go washable

[*As seen on pages 50-53*]

**Page 50:** Dress by Nelly Don. **Page 51:** (upper left) by McKettrick; (lower left) by L'Aiglon; (right) by McKettrick. **Page 52:** (upper) a Lampl fashion; (lower) by Lane Bryant. **Page 53:** (upper) Lane Bryant; (lower) L'Aiglon.

With the exception of the two Lane Bryant styles, you'll find the above washables at fine stores everywhere. The former may be had from Lane Bryant Mail-Order, Indianapolis, Indiana.

Betty Crocker helps you solve 3 tricky ironing problems

MASTERING A MAN'S SHIRT

To iron the yoke: simply pick up shirt by yoke seams; double yoke over body of shirt and back into corners, using our Tru-Heat Iron's versatile tapered heel. The unique shape of this truly modern iron makes it easy to get at tricky places like cuffs, yokes and gathers.

PRETTYING A PUFF SLEEVE

For a saucy finish, put sleeve band and armhole together with a cross-wise fold and iron into center using a wiggly motion. Perfect balance makes Tru-Heat Iron ideal for both dainty dresses and heavy work clothes. Extra-large soleplate speeds ironing; Safety Side Rests save energy.

STEAMING AS YOU SEAM

To press seams open in home sewing, use the General Mills Steam Ironing Attachment with the Tru-Heat Iron. Steaming each step of the way helps give a professional look. Use attachment for all other home pressing, too. Slips on and off in a jiffy ... and no pressing cloths needed!

See this remarkable ironing team today!

General Mills Tru-Heat Iron & Steam Ironing Attachment

Sponsored by Betty Crocker

Betty Crocker is a trade name of General Mills

BIG COUPONS FOR

Queen Bess

PATTERN SILVERWARE in Tudor Plate by ONEIDA COMMUNITY SILVERSMITHS

*The same exquisite silverware offered with General Mills food products*

NOW GIVEN WITH THE PURCHASE OF ALL GENERAL MILLS APPLIANCES

40 COUPONS with purchase of TRU-HEAT IRON

25 COUPONS with purchase of STEAM IRONING ATTACHMENT

75 COUPONS with purchase of AUTOMATIC TOASTER

NOTE: If the instruction booklet you get with appliance doesn't contain a coupon, send dated sales slip with store name, name of appliance, your name and address, within 30 days of purchase to General Mills, Inc., Box 800, Minneapolis, Minnesota.

# Douglaston Woman Edits Prize-Winning Recipes

**Twins Carl and Neil Foehrenbach** give their mother Mrs. Frank Foehrenbach, of Douglaston, N. Y., a helping hand in editing the final draft of her cookbook "Reunion Recipes." Most of the recipes are prize winners and are contributed from all over the country. Cookery expert Mrs. Foehrenbach says that it takes more than practice to be a prize-winning cook. "Good ingredients are very important in all branches of cooking," she says. "When you bake at home, for example, you have to use a good yeast—one that's fast and lively. Otherwise your results are likely to be below par. I, for one, have always used Fleischmann's Yeast because I know it's got plenty of pep and action. It's one yeast I can depend on for finest results."

**That's right!** Prize-winning cooks prefer Fleischmann's Yeast to all others.



AB-SORB-ENT TOWELS TOWELING by BOOTT (COTTON) MILLS

SMALL WAYS OF SERVICE TO THRIFTY HOUSEWIVES


**Home Planning Help.** There's a store near you offering **Successful Farming's** home planning service. See page 89 for more about this service.


**FREE! for your baby**

**HAVE THE SWEETEST BABY OF ALL!**

Send for this kit and get: 1. Sample of sensational new Mennen Baby Magic Skin Care. 2. Sample of new Mennen Baby Powder. 3. Book of 2,000 names and their meanings. 4. Pictorial Baby Care Guide. 5. Shopping list of baby needs. (Offer good in the U.S.A. only . . . expires Dec. 31, 1950.)

The Mennen Co., Dept SF-50
Newark 4, N. J.
Please send me a free Baby Bundle.

*Name*.....

*Address*.....

*Date Baby Expected*.....


**You can rely** on the advertising in **Successful Farming.** It has received our guarantee. Read this guarantee on the index page


**DRAINS Cellars, Cisterns, Wash Trays; IRRIGATES your Garden, etc.**

LABAWCO Pump has 1,001 year 'round uses—house, garden, farm. Pumps 1800 GPH, or from 25' well, or 30' high. Uses ¼ to ½ HP motor.

**DOES NOT CLOG!**

*Postpaid if Cash with Order. West of Mississippi, add 50c.*

**LABAWCO PUMPS $6.50**
**Belle Mead 33, N. J.**



"ORIGINAL" Chippewa FARM and WORK SHOES

LIVE LEATHER

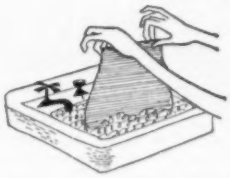
FAMOUS for more than 50 YEARS!

ORIGINAL CHIPPEWA SHOES CHIPPEWA SHOE CO CHIPPEWA FALLS, WIS.

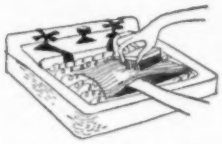
For quality, comfort and workmanship ORIGINAL CHIPPEWA footwear is always your best buy. Long-wearing soles, leather, cord or cork. Sturdy uppers. See ORIGINAL CHIPPEWA Boots and Shoes in all widths and sizes at your ORIGINAL CHIPPEWA DEALER!


# How to wash foundation garments

**These simple washing rules will give longer life, more durability**

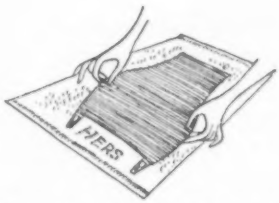


Close all hooks or zipper fastenings and wash the garment carefully in lukewarm suds—never hot—using a mild, gentle soap. Lift the foundation gently in and out of suds



Do not twist or rub in washing. Simply dip a soft brush or Turkish towel into the suds and draw it lightly across the soiled spots. This results in easy cleansing and longer wear

Rinse your foundation garment several times in clear, tepid water. Then, roll it up in an absorbent turkish towel. Gently press out—don't wring—excess moisture, and unroll




To dry, block the garment flat on a towel or hang it double over a bathroom rod or a clothesline (outdoors, if possible). Keep it away from the direct heat or sunlight. **END**

# "I'm practically a lady of leisure since I got my Ironrite!"

***says* Mrs. ROBERT FREEMAN**
ADEL, IOWA

**1** "Even with all the modern conveniences on an up-to-date farm like ours, there were still some chores I couldn't seem to escape.

"My special problem was the ironing. It was a tiresome, all-day tussle with a heavy load of dress and work clothes that left me completely done in. But that was before my husband bought me an Ironrite Automatic Ironer!

"Now, I sit down to iron, letting the machine do all the work that my arm and back used to do. I've cut my total ironing time to a third of what it was. Best of all, there's nothing left to finish by hand iron, because Ironrite's two open ends and handy Do-all ironing points make it simple to iron even the most complicated pieces.

"Yes, thanks to Ironrite, I'm practically a lady of leisure. I've hours to devote to things I couldn't do before!

**THREE BEAUTIFUL IRONRITE MODELS**

**MODEL 80.** New, improved open-model Ironrite Automatic Ironer for the home laundry. Attractively finished in white enamel. Has Ironrite's *exclusive* "two open ends," Do-all ironing points on both ends, and other famous Ironrite features.

**MODEL 85.** Beautiful, closed-top Ironrite designed for modern kitchen or laundry. Finished in lustrous, baked white enamel. Opened, hood provides a shelf for finished ironing; closed, it's worktop area.

**MODEL 88.** Smart, distinctively styled Ironrite with gorgeous hardwood top, built and finished like fine furniture. Harmonizes with your furniture. Choice of rich brown mahogany finish or lustrous honey blonde finish.

**2** "Ironing my little girl's fancy dresses is simple on my Ironrite Automatic Ironer. The Do-all points at each end of the ironing shoe act just like hand-iron points; reach every tuck and gather. Even ruffled curtains are easy.

**3** "Difficult to learn? I should say not! Ironrite's Home Service Advisor taught me in no time. Starting with simple things like sheets, which are a snap with Ironrite's two open ends, she soon had me ironing the most delicate things!

**4** "You'd think a shirt would be difficult to iron on an ironer, but with my Ironrite it's less than a 4-minute job. Thanks to Ironrite's controlled heat and pressure, I turn out much neater shirts for my husband than I did by hand.

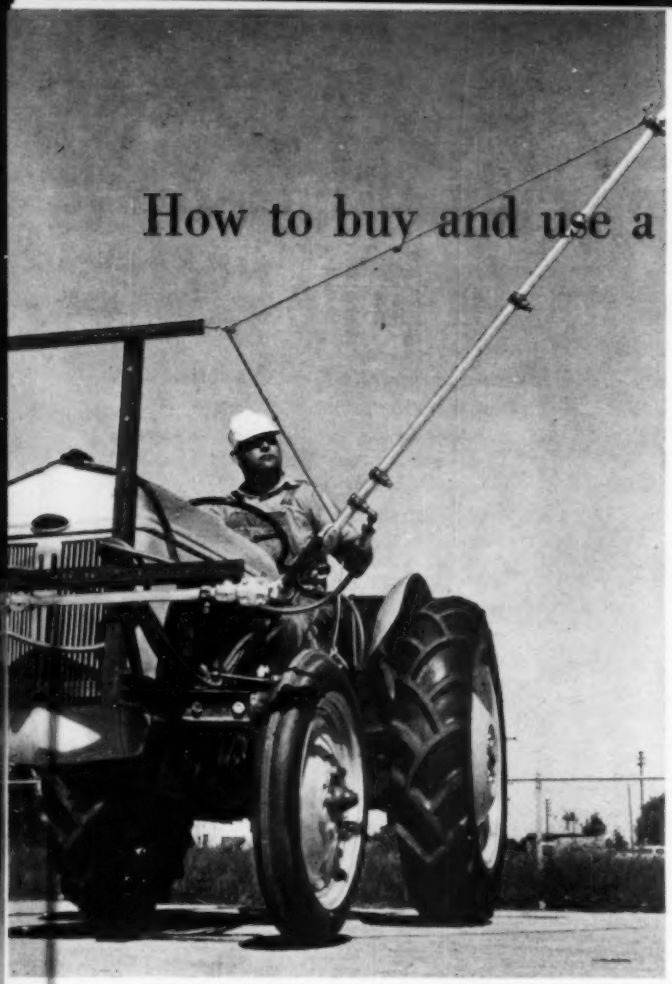
**5** "My advice to any woman who would like more leisure (and what woman wouldn't!) is to see an Ironrite dealer soon. Be sure to see a demonstration of this marvelous machine before the week is out. You'll never regret it!"

**Ironrite**

For the name of the nearest Ironrite dealer, see yellow pages of your telephone directory

**IRONRITE INC., MT. CLEMENS, MICHIGAN**
EXCLUSIVE MANUFACTURERS OF IRONERS SINCE 1921

# How to buy and use a sprayer



Make sure the booms are easy to lift to the travel position from the tractor seat. You'll soon get tired of jumping off and lifting booms at every gate

**Here is what to look for in buying a sprayer, and how to keep it so it will work when you need it**

**By Richard W. Hufnagle**

Before buying a sprayer, you'll want to do a bit of figuring.

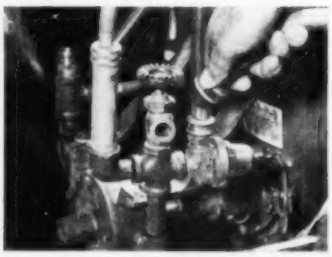
First, there are three main jobs you'll want it to perform:

1. Weed spraying
2. Corn borer and fly spraying
3. Livestock spraying

Pressures should range from a low of 30 pounds to the square inch for weed control work up to 250 pounds for livestock work. If you have much livestock spraying to do, it will pay you to get equipment that will deliver those high pressures when they are needed.

Booms and tanks should be made of noncorrosive materials or be protected by a special coating such as paint, plating, or [ *Turn to page 128*

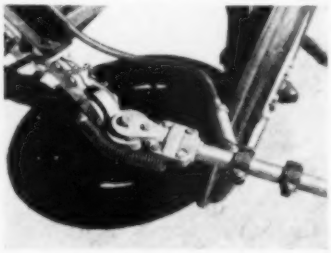
Before buying, see how many wrenches and how much time it takes to raise or lower boom



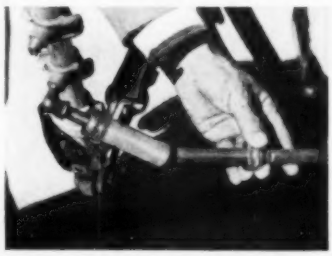
You want an outlet and valve near the pump for connecting a hand hose or filling tank

Cutoff valves for each boom and for entire rig should be reached handily from tractor seat

Make sure you can see—at a glance—the pressure gauge. Steady pressure does best job



Sure, you'll hit the fence. See that the boom's joints are flexible so you can back out, go on



There should be line strainers to keep the trash from nozzles. And are strainers easy to clean?

# Beware of the Danger Zone

THE MORE YOU DELAY - THE MORE YOU PAY

**WARNING ZONE**

**Engine loses pep . . .**

**Needs a tune-up**

Clean, adjust and re-time ignition. Clean fuel supply and carburetor screens. Adjust carburetor. Adjust tappets and fan belt. Check compression and vacuum readings for symptoms of ring wear.

**DANGER ZONE 1**

**Engine begins to smoke . . .**

**Needs new piston rings and minor engine repairs**

Replace piston rings. Align rods. Adjust rods or replace rod bearings. Reseat and reface valves.

Tune engine.

These repairs are comparatively inexpensive and put the engine back in peak condition for thousands of economical miles. Delay puts the engine in Danger Zone 2.

**DANGER ZONE 2**

**Engine pumps oil badly . . .**

**Needs new piston rings and major engine repairs**

Replace piston rings. Replace piston pins. Adjust—probably replace—main bearings. Align rods. Adjust rods or replace rod bearings. Reseat and reface valves.

Tune engine.

These repairs naturally cost more than those needed in Danger Zone 1, but they put the engine back in condition for thousands of additional miles of satisfactory service. Delay leads to costly Danger Zone 3.

**DANGER ZONE 3**

**Destroyed oil control . . .**

**Needs new piston rings and complete overhaul**

Repairs cost three or four times as much as in Danger Zone 1.

Remove engine. Reface cylinders. Replace pistons, pins, rings. Replace main bearings. Align rods, refit or replace rods, or replace rod bearings. Overhaul valve lifters, rocker arms. Replace timing chains or gears. Reseat, reface valves. Replace guides and springs. Replace camshaft bearings. Clean oil lines. Overhaul oil pump.

Clean, re-install and tune engine.

## Piston rings should be replaced . . . *at the first sign of wear!*

When oil-pumping starts in your car, truck or tractor, you're driving into the Danger Zone. Your piston rings should be replaced at once—they are engineered to "take" wear, to protect the engine.

Fortunately, replacing piston rings at this time is comparatively inexpensive. But if you delay—until you're in the second or third Danger Zone—your repair bill will be two to four times as great.

If your engine is in the Danger Zone now, ask your motor service man for Hastings Piston Rings. They're designed especially for replacement service. They *stop* oil-pumping, *check* cylinder wear and *restore* performance.

It's the best money you can spend on your car, truck or tractor.

**HASTINGS MANUFACTURING COMPANY • HASTINGS, MICHIGAN**
Hastings Ltd., Toronto

**HASTINGS** STEEL-VENT PISTON RINGS

That's what thrifty farmers are saying all over America. They've learned that GILLETTES – dollar for dollar, tire for tire – are their *best* buy.

**HERE'S WHAT GILLETTES CAN DO FOR YOU:**

**ON YOUR TRACTOR** the GILLETTE POWER BAR delivers more work—deeper traction for faster performance.

**ON YOUR TRUCK** the GILLETTE SUPER RIBBED shoulders heavier loads for more safe miles – over *any* road surface.

**ON YOUR CAR** the GILLETTE PRESIDENT gives you all the comforts of low pressure – PLUS up to 30% more miles with its "cold rubber" tread.

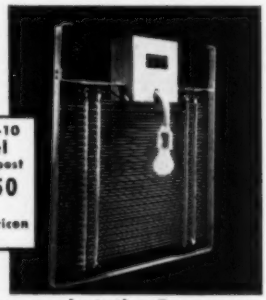
**WEAR BETTER** *because they're* **BUILT BETTER**

A BEAR FOR WEAR
**GILLETTE TIRES**
DIVISION OF UNITED STATES RUBBER COMPANY

DIVISION OF UNITED STATES RUBBER COMPANY



*Gardner* **Electrified Insectocutor Panel Protects Crops from Damage by Night-Flying Moths**



**No. AG-10 Panel** without post **$37.50** f.o.b. Horicon Wis.

**Effective against the European corn borer, coddling moth, Sphinx moth, cutworm moth, fruit beetle, cucumber beetle, corn ear worm moth, Oriental fruit moth, leaf hopper and others.**

This inexpensive, illuminated, electrified screen is now being used by many commercial growers and hundreds of farmers, with outstanding success. An illustrated, factual bulletin is yours for the asking. If your dealer can't supply you, send check or money order for prompt shipment.

**Gardner Manufacturing Co.**
950 Kansas Street Horicon, Wis.



**AGENTS WANTED**
Sell monuments in your territory. Big Cash Profits. No Investment. Full or spare time. Be your own boss. Write for FREE Samples and Catalogs.
Dept. AM, BOX 1131, Joliet, Illinois.



**DO 10 hrs. WORK in 7 hrs.**

**9 SPEEDS FORWARD with the M-W GEAR**

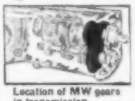
**IT'S IN HERE on your FARMALL H or M TRACTOR**

With MW gear you still benefit by all the power of the 4 standard forward speeds, and also can shift on up to approx. 6, 8, 10, 12 mph. in the field, enabling you to finish work days in advance of your neighbors. The MW gear **does not change road speeds** or interfere with any standard working capacities of tractor.

- Converts tractor to 9 speeds forward.
- Sacrifices no standard equipment.
- Gives forced lubrication to pilot bearing.

**NEW PUMP SAVER COUPLING**

Because it takes so much time and labor to disconnect Farmall "M" Hydraulic Pumps many farmers do not do it. The M-W **Pump Saver Coupling** can be coupled or uncoupled in less than 10 min. Eliminates 80% useless wear from idle running. Hydraulic Pump is then used only when needed on the job. Pump life and efficiency increased many times. For use on Farmall "M" tractors.


Location of MW gears in transmission.

Rod and lever only outside addition.

Write for literature and name of nearest dealer.

**M-W GEAR COMPANY**
DEPT. 8 ANCHOR, ILLINOIS


## Sprayers

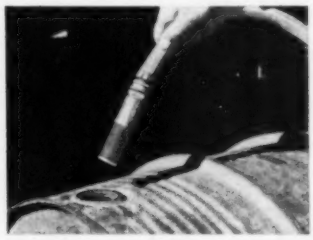
[ *From page 126* ]

thick galvanizing which will last for many years of rust-free service.

Tractor-mounted sprayers are a bit less expensive than the trailer type, but are more work to mount each time you use them. You're the only one who can decide where to draw the line there. Either does a good job. Buy the one which fits your own conditions and purse.

If your acreage of crops—or number of livestock—to be sprayed is not very big, that doesn't mean you'll have to do without spraying, or that you'll have to wait for custom operators. Good-quality tractor sprayers can be had for considerably less than $100—if you can do without extra-long booms and other such large-scale timesavers.

Whatever sprayer you buy, use these ideas to keep it in top condition.

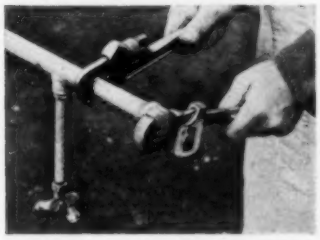


**The suction strainer should be small enough in diameter to fit in 2-inch bung of the drum**

**For winter, clean screens and nozzles; store in kerosene. Use toothbrush, not a wire brush**

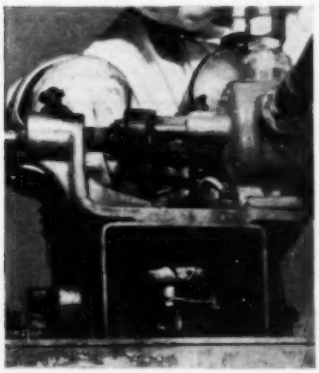
**Winterize pump by taking off hoses, putting No. 40 oil through top vent; turn to distribute**

Don't overgrease the pump. If you do, grease will get in system and will clog the works



After each day's spraying, disconnect the boom and plugs, and flush the entire system

Plug the nozzle holes over winter with small corks. They keep out dirt, protect the threads



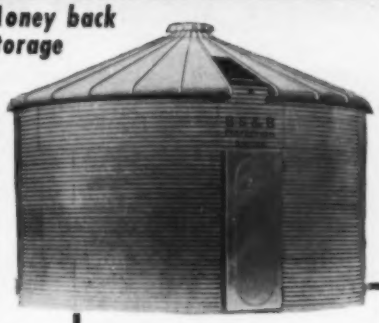
And don't let it freeze! Don't overlook bottom drains; be sure to drain booms. END


HOW TO MAKE MORE MONEY WITH YOUR GRAIN

BS&B

*Get your Money back on grain storage with*

**PERFECTION**
**Bolted - Steel**
**GRAIN BINS**



First you get 100% grain protection keeping your grain in top shape for full market value. Second, government fees soon pay for bin . . . *you actually get your investment back and more.*

***Only BS&B Offers These Perfection Bin Features***

- New canopy roof shuts out rain, snow and all the elements.
- No-leak ventilator cape, an exclusive feature.
- One-piece welded door frame.
- All parts precision-built to fit perfectly — easily assembled.
- Water-proof, weather tight and vermin-proof.

**BLACK, SIVALLS & BRYSON, INC.**
Section 3-695GB
720 Delaware St. Kansas City, Mo.
KANSAS CITY TULSA OKLAHOMA CITY

**Approved and Accepted by U. S. Government for Loans**

Built far beyond minimum specifications for loans and insurance as set forth by the Department of Agriculture and Department of Commerce. Storage fees paid to farmer should pay for bin in 3 years or less.

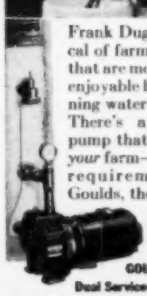
**FREE**

Write for your copy of "Farm Facts" Handbook, full of helpful farm tips.

**"Our GOULDS Water System means a lot to the whole family"**
says Frank Dugas of Nome, Texas

Frank Dugas's rice farm is typical of farms all over the country that are more profitable and more enjoyable because of Goulds running water service.

There's a dependable Goulds pump that's right for the job on *your* farm—no matter what your requirements—backed by Goulds, the world's largest manufacturer of pumps exclusively, with 102 years' experience.



**GOULDS FAMOUS JET-O-MATIC**
**Dual Service—for deep or shallow wells.**

**GOULDS PUMPS INC.**
**Dept. 5-29, Seneca Falls, N. Y.**
Please send details on your pumps and name of nearest distributor. I have:
☐ Deep Well ☐ Well to be dug or drilled
☐ Shallow Well ☐ Pond or Stream
NAME .....
ADDRESS .....



***Take the "irk out of work"***

as low as
**$132.00** Freight Extra

**CHOREMASTER**
**THE ONE WHEEL GARDEN TRACTOR**

This adjustable hitch ($4.00) MAKES A POWER MOWER OUT OF YOUR PRESENT HAND MOWER

Now! New 1950 CHOREMASTER makes light work of lawn and garden chores. Quick starting, easy operation. Hitch your present hand mower to CHOREMASTER . . . shift from mowing to cultivating in a jiffy! This rugged multi-purpose Choremaster unit can also be used for weed cutting, hauling, spraying, snow plowing, and dozens of other lawn and garden tasks. 1, 2 and 3 H.P. models.

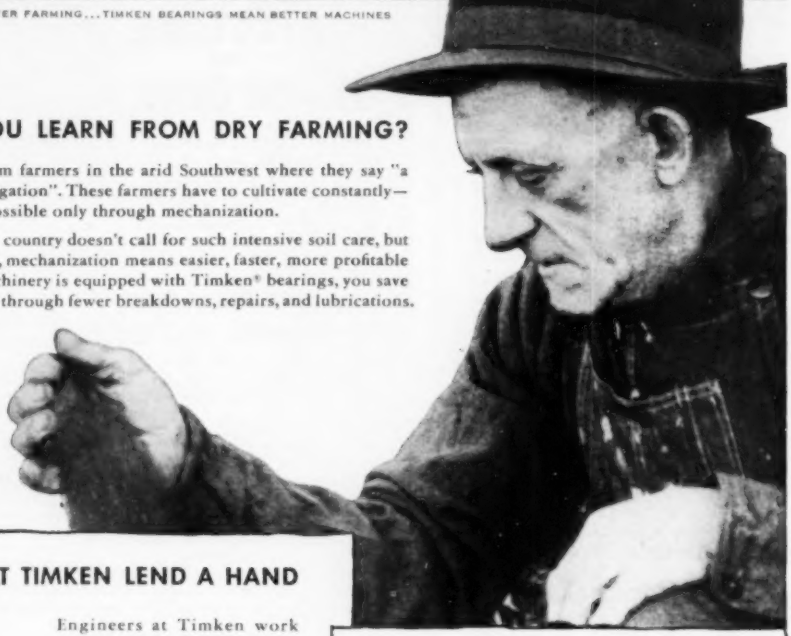
**WRITE FOR LITERATURE and dealer name.**

**CHOREMASTER DIVISION**
**THE LODGE & SHIPLEY COMPANY**
826-5 Evans Street Cincinnati 4, Ohio

TIPS FROM THE TIMKEN ROLLER BEARING COMPANY ON

# Making the most of MECHANIZED FARMING

BETTER MACHINES MEAN BETTER FARMING...TIMKEN BEARINGS MEAN BETTER MACHINES

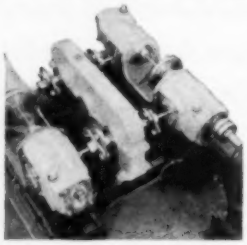


## 1. WHAT CAN YOU LEARN FROM DRY FARMING?

You can take a lesson from farmers in the arid Southwest where they say "a cultivation is worth an irrigation". These farmers have to cultivate constantly—a tremendous job that's possible only through mechanization.

Maybe your section of the country doesn't call for such intensive soil care, but no matter where you farm, mechanization means easier, faster, more profitable work. And when your machinery is equipped with Timken* bearings, you save even more time and money through fewer breakdowns, repairs, and lubrications.

## 2. ENGINEERS AT TIMKEN LEND A HAND



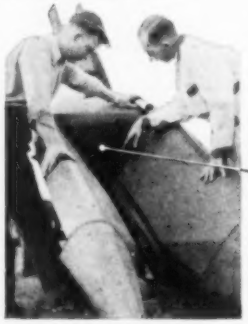
Engineers at Timken work closely with implement makers to give you the best in bearing performance. And they help design and test many related parts as well. For instance, this laboratory device at Timken tests gears and other tractor transmission parts for stamina and fatigue resistance. The result is better machinery for your farm.

## 3. WHAT'S YOUR BIG IDEA?

Dan Troyer, Jr., Madison County, O., rigged up this adjustable blower to keep the men on his hay baler comfortable. Two streams of air cool them off and blow away dust from the dried hay. The men can adjust the flared outlets to their liking. Can *you* use this idea?

## 4. HOW TO BE A BETTER BUYER

The best way to get the most out of mechanized farming is to buy machinery you can rely on. Timken bearing equipped machinery assures you of fewer breakdowns, fewer repairs, and less lubrication. Thanks to Timken bearings, friction is virtually eliminated, allowing implements to be towed at full tractor speed. It's a wise buyer who looks for the Timken bearing equipped label on all new farm machines. The Timken Roller Bearing Company, Canton 6, Ohio. Cable address: "TIMROSCO".



Tapered Roller
TIMKEN BEARING
EQUIPPED

*This symbol on a product means its bearings are the best. Look for it when you buy.*

NOT JUST A BALL ◯ NOT JUST A ROLLER ▭ THE TIMKEN TAPERED ROLLER ▭ BEARING TAKES RADIAL ↕ AND THRUST →◯← LOADS OR ANY COMBINATION ✳

## For pork

[ *From page 34* ]

Station and see how well their thinking checks with yours. Tests at the Missouri station show that trying to fatten hogs on less than half a full feed of grain while on pasture is seldom economical, while a full feeding of grain on pasture results in minimum use of grass in producing pork.

The very limited feeding of grain on pasture results in hogs taking two months longer to get to market, and a rather expensive dry-lot finishing period just ahead of marketing time. Hog prices usually are lower in later fall markets, too.

Some of the Missouri farmers have hit upon a happy medium. Using pigs farrowed about March 15, they limit the amount of grain during the early summer to about three-fourths of a full feed, while the pigs are on good alfalfa, clover, or rape pasture. Then during the last 45 to 60 days of the fattening period, they shove them up to a full feed. That puts their hogs on the September market, at relatively good prices. By working out this adaptation, they obtain the advantages of a limited grain feeding without the disadvantages of delayed marketing.

Kansas experiments show that nearly 2 bushels of corn are saved for every 100 pounds of gain when hogs are given limited feeding during the early part of the fattening period, as compared with full-feeding throughout. That could amount to 3 or more bushels saved for each pig reaching market size. The limited feeding forces the greatest use of pasture.

When it comes to using pastures for carrying brood sows, there seems to be less experimental information, but the experiences of two or three farmers should provide a clue.

Gilbert Piffer, Warren County, Iowa, last summer ran 10 gilts on alfalfa-brome till three weeks before farrowing time, then changed to bluegrass. While on alfalfa, the gilts received only two baskets of oats and about 40 ears of corn daily. They farrowed an average of 8.1 pigs in July.

The summer before, Piffer carried 10 sows on red clover pasture to within three weeks of farrowing—and gave them nothing but water, salt, and mineral. As farrowing time approached, he started to feed some oats and a little corn and protein supplement. The supplement and corn were taken away a week before farrowing time. The sows kept up their weight quite well during pregnancy, and they *raised* an average of 8.3 pigs.

Doris Salsman, Putnam County, Indiana, turned 20 sows and gilts on 11 acres of Ladino and alfalfa, where they stayed until two or three weeks before farrowing. The only extra feed they received was a sackful of ear corn once a week, plus water and mineral. The sows averaged 8 pigs and stayed in good condition.

Last May, he turned 28 sows on 18 acres of Ladino-alfalfa, and fed them nothing but salt and mineral until they farrowed the first of September. Cold rains caused some pig losses, but the sows weaned an average of 7½ pigs. Salsman says they were the largest and strongest he ever raised.

In exploring the possibilities of using greater amounts of grass (and hay) in hog feeding, we bump into the very practical question of whether such a program

[ *Turn to page 132*


**this is the month to see your Myers Dealer**

***Myers New "HN" Series Ejecto Water System Convertible for Shallow and Deep Wells***

*Greater capacities at higher pressures — plenty of water even at farthest outlets. Smooth, quiet, fool-proof operation. Simplified design, sturdy construction. Offers many original Myers money-saving features for improved running water service. Many different types and sizes.*

Any day during May — the earlier the better — be sure to visit your local Myers Water Systems dealer. For again it is "National Water Systems Month." And again your Myers dealer has *more* to show you: more that is new and outstanding in water supply equipment; more innovations and variety; MORE VALUES for you to select from!

. . . Such as Myers new "HN" *Ejecto* Water System, already delivering *more water per dollar* for thousands of enthusiastic new owners. Plus new, remarkably efficient Myers Elgin Water Softeners that bring all of the many benefits of soft water into your home. And as always, the full-range Myers line of first-choice Water Systems — *Ejecto* and Reciprocating Types that meet every need.

So, make a memo to stop in at your Myers dealer's soon. Better still, make a beeline for his place of business today . . . and look over America's most complete, most wanted line of pumps and related products. Mail coupon for your dealer's name and free catalogs.

**THE F. E. MYERS & BRO. CO., Dept. R-15, Ashland, Ohio**

Send free literature on items checked below

☐ Water Systems ☐ Hand Pumps ☐ Power Sprayers
☐ Power Pumps ☐ Hand Sprayers ☐ Hay Unloading Tools
☐ Water Softeners

Name_____

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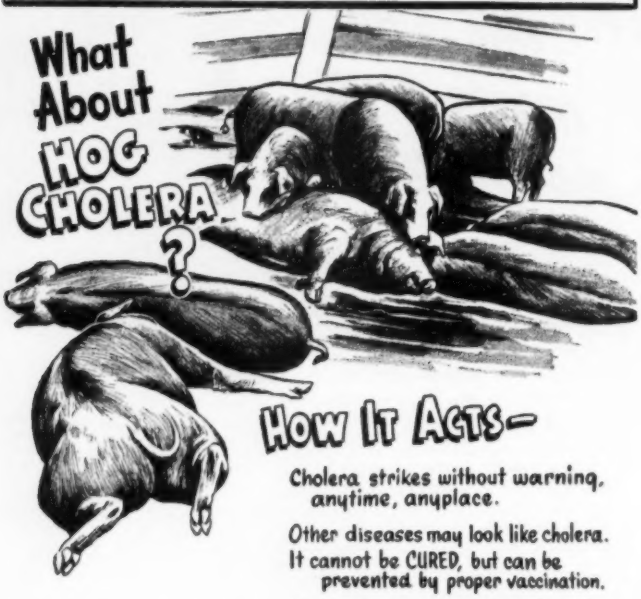
County_____ R.F.D._____

# KNOW YOUR LIVESTOCK PROBLEMS

Another in the series "What the Veterinary Profession Means to Mankind"



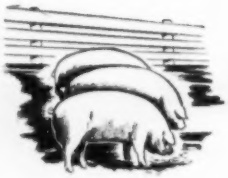

## HOW IT ACTS—

Cholera strikes without warning, anytime, anyplace.

Other diseases may look like cholera.

It cannot be CURED, but can be prevented by proper vaccination.

Cholera is the greatest single hog killer. Caused by an invisible virus.



## WHAT TO DO—

Have ALL swine vaccinated--pigs around weaning time.

Have your veterinarian determine when pigs are in proper condition for vaccination.

If cholera strikes ①segregate sick hogs. ②call veterinarian immediately ③warn neighbors.

Don't EVER depend on guess-work to diagnose a disease on your farm.

Caution: improper use of live virus can actually SPREAD the disease.

**INSURANCE**

*PROPER VACCINATION AGAINST CHOLERA IS THE ONLY SAFE INSURANCE. CONSULT YOUR VETERINARIAN!*

Prepared by American Foundation for Animal Health



Ask your *Field Service Man*...

SUCCESSFUL FARMING FIELD SERVICE MAN

The Successful Farming Field Service Man is especially welcome as a caller these days.

Make it a point to ask him to show you a copy of "*A Better Living From Your Soil.*" He can show you how it helps you to do better farming and enjoy better living, how to better profit from your farm, and how future articles in Successful Farming will keep you posted on the latest developments in soil care.


## For pork

[ *From page 131* ]

can fit a two-litter system to a very good advantage. Some say it can't. The higher proportion of forage is inclined to slow gains, which might lead to serious overlapping of spring and fall litters.

But Don Frakes, Wright County, Iowa, thinks the two-litter system and heavy use of forage can be worked together, if you modify somewhat your fattening program. Here's his plan:

Push your spring litters for market the usual way, getting them off in six or seven months by full-feeding on pasture. But take your time with the fall litters, using grass and hay to the fullest advantage all the way along.

He runs fall pigs on legume pasture till November, when they go to dry lot. There, they receive green, leafy, second-cutting alfalfa in addition to their regular ration. He has observed that the fattening hogs will eat up to nearly one-half their ration, by weight, of brome-alfalfa hay if corn feeding is restricted. He prefers long hay instead of chopped, for he believes that the chewing helps digestion.

By weighing shoats, he has found that they may gain about .8 of a pound daily on a heavy hay feeding during the winter. That's too slow for our usual notions on hog feeding, but it does mean feeding economy and also a market for grass and hay. By going to market in midsummer, these grass- and hay-fed hogs are sold during a period when prices are rising.

Frakes handled 300 September pigs in this manner. In April, he sold 190 head, weighing 222 to 240 pounds. The remaining 110 went to pasture in mid-April, where they put on additional cheap gains. Sold last July at 300 pounds, they brought $20.75 on the market.

Then there's the question of whether more extensive use of grass, and hay will produce a less lardy hog, and thus help meet a situation which has plagued the swine industry for some time.

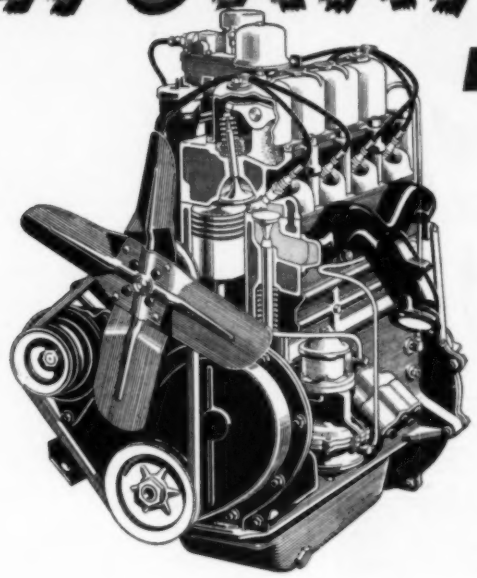
About this, there's more speculation than knowledge. Both John Keller, Cass County, Michigan, and Don Frakes feel that their grass-fed hogs produce less lard and leaner bacon.

Among research men, the feeling seems to prevail that if pigs are full-fed on pasture, they will probably make a little less lard, when marketed at 200 to 225 pounds, than hogs full-fed in dry lot. Pretty much the same opinion holds as to whether any difference could be found between two hogs of the same market weight if one were kept on a limited feed on pasture during the early fattening stage and then full-fed, and the other full-fed on pasture until marketed.

Looming larger on the hog raiser's horizon is the prospect of feeding grass silage, which might be considered a preserved form of pasture. Hog raisers are beginning to ask whether they can feed grass silage to their brood sows, and how much. This already is being done in Europe.

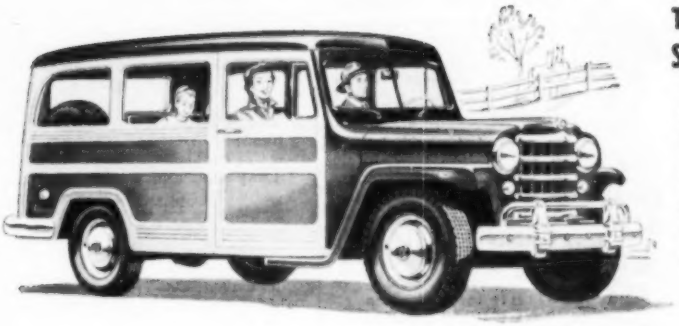
Not all of the experts agree as to the exact value of an acre of rotation pasture for hogs, or the precise amount of grain you can save. But most of them believe that pastures for hogs can be used more extensively and in more ways than many of us realize. That's the most important thing about grass today. **END**

# WILLYS' NEW HURRICANE F-HEAD ENGINE



## 7.4-1 COMPRESSION GIVES MORE POWER, MORE MILEAGE

You are looking at America's newest, most advanced engine. It is a 4-cylinder, F-head engine—with valve-in-head intake and valve-in-block exhaust. It has 7.4-1 compression, but does not require premium fuel. Its short, evenly-heated intake manifold and giant-size intake valve deliver a full charge of fuel mixture to each cylinder at any speed. It literally squeezes more energy from every drop of gas, giving lower fuel consumption and higher horsepower. See the new Willys models with the *HURRICANE* Engine at Willys Dealers.



## THE NEW WILLYS STATION WAGON

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With its money-saving *HURRICANE* Engine and long-lasting functional body, this new ½-ton Willys Truck is the top buy in its field. Comfortable cab . . . sensible fenders . . . high road clearance . . . a host of other features. 118-inch wheelbase; 4250 lbs. GVW.

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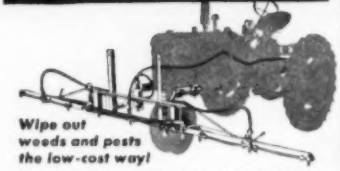
A Few of the Famous Dandy Boy Attachments for ALL Three Models

## New Myers Tractor-Mounted Sprayer



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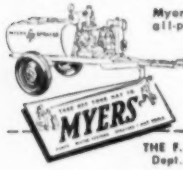


Myers GP Sprayer—a real all-purpose, all-quality sprayer. Adjustable pressures, 30 to 400 lbs. Capacity, 7 gpm. 5 wheel and skid models for gun or boom use.

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## For beef

[ *From page 35* ]

and 160 pounds of TVA superphosphate to the acre. Each year since then, he has built pastures until now he has more than 130 acres of the very best pasture.

Part of this is in Ladino-fescue; the rest of the 130 acres is seeded to lespedeza and redtop. With this combination, you don't catch Clarence without good grazing except during a 1½-month period from the middle of February until the latter part of March.

His 275 crop acres are about evenly divided between bottom land and upland. Already, most of the rolling land has been seeded to permanent pasture. Clarence is working into a 4-year rotation of corn, corn, small grain, and clover for hay or to turn under on the bottom land.

This kind of an arrangement fits right into Clarence's cow-calf program. Here's how it works. Calves come in January and February. About April 1, cows and calves are put on Ladino-fescue pasture. Around the first of July when the Ladino is poor and the fescue is tough, the herd is moved to lespedeza where they stay until frost time. In the meantime, the fescue is built up for winter pasture.

Early in November, the calves are weaned and the cows are turned back to the fescue until about the middle of February. As a rule, the cows are given some hay in addition to pasture during the first half of February. From February 15 to the end of March, the cows and the new calves are kept around the barn. And then usually around the first of April, they are put on Ladino-fescue for another full season of pasturing.

Calves weaned in November are fed through to March and sold at a weight of about 750 pounds. Clarence figures he could feed them through to fall, but this interferes too much with the farm work.

In the 5 years he has been in this program, Clarence has discovered several practices which have meant money to him. For instance, 3 years ago, he lost 4 cows from bloat on Ladino. He has found a way around this trouble by seeding fescue in the Ladino. Small fields of 15 to 20 acres in pasture permit the use of as much pasture as necessary and the harvesting of valuable seed crops off the rest.

The average native permanent pasture in this section will carry about one cow on 3 to 5 acres, but Clarence would rather have 1 acre of improved pasture than 5 acres of the native kind. An average of about 2 acres of Ladino-fescue and lespedeza will carry a cow and calf through the pasture season and make a calf weighing 500 pounds when weaned.

Dave Cover is another southern Illinois farmer who knew his land was getting thinner and the gullies were growing deeper while he tried to crop most of his farm near Tunnel Hill. Ten years ago, he saw he was going broke raising corn that yielded 45 bushels if he was lucky. Today, he is growing 300 pounds of beef to the acre in an area where land sells for $25 to $30 an acre. In fact, during the last 3 years, his farm has paid for itself.

On this farm, 160 acres of rebuilt pasture carries 45 cows and their calves through the season from April 1 to the end of December with little additional feed. Normally, the calves are born in

[ *Turn to page 137*

# NEW! HUDSON presents the COMPLETE ALL-PURPOSE POWER SPRAYER

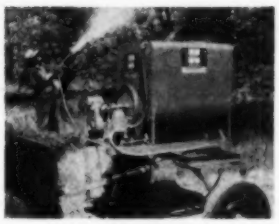
**Higher Pressures!**
UP TO 800 LBS. PER SQ. IN.

**Greater Output!**
UP TO 8 GAL. PER MIN.

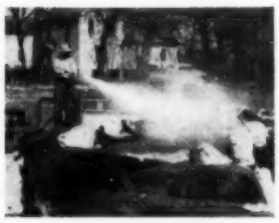
**Does All These Jobs ...and many more!**

For borer and weed control in corn

For weed control in pastures



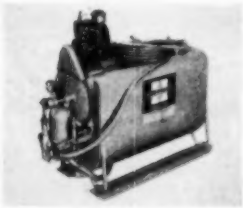
For orchard spraying



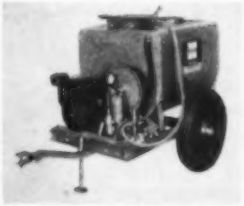
For all livestock spraying

**Here's the power sprayer to do ANY farm spraying job! Skid mounted. Use with trailer, tractor, truck, wagon or jeep!**

Model shown has 150 gallon tank; develops 800 lbs. pressure per sq. in., delivers 8 gallons per minute. Also available are 150 gallon or 100 gallon sizes, with 500 lbs. pressure per sq. in.; choice of 8 or 4 gallons per minute.



50 gallon tank. Develops 400 lbs. pressure per square inch, delivers 4 gallons per minute. May be used with spray boom or gun; with tractor, truck, trailer or wagon.



Completely self-contained — mounted on pneumatic tires. Timken bearing wheels. 150 gal. cap. Develops 500 lbs. P.S.I.; delivers 8 gal. per min. Trailer hitch. Ideal for smaller orchards; custom spraying, pastures, wheat, flax, small grain, etc.

Model shown has 50 gallon tank. Develops 400 lbs. per square inch; delivers 4 gallons per minute. Also with 30 gallon tank. Develops 250 lbs. per square inch; 4 gallons per minute.

**Whatever you may need** in power sprayers — Hudson can furnish them to handle all types of liquids and wettable powders. Full range of pressures and gallonages for all types of farm and ranch jobs. For use with tractor, trailer, wagon, jeep—whatever your requirement may be. *And remember* — there are no leather plungers or gears to wear out with Hudson's chrome-plated piston pump. Then, too, Hudson sprayers are self powered; can be used anywhere without being dependent on tractor power take-offs.

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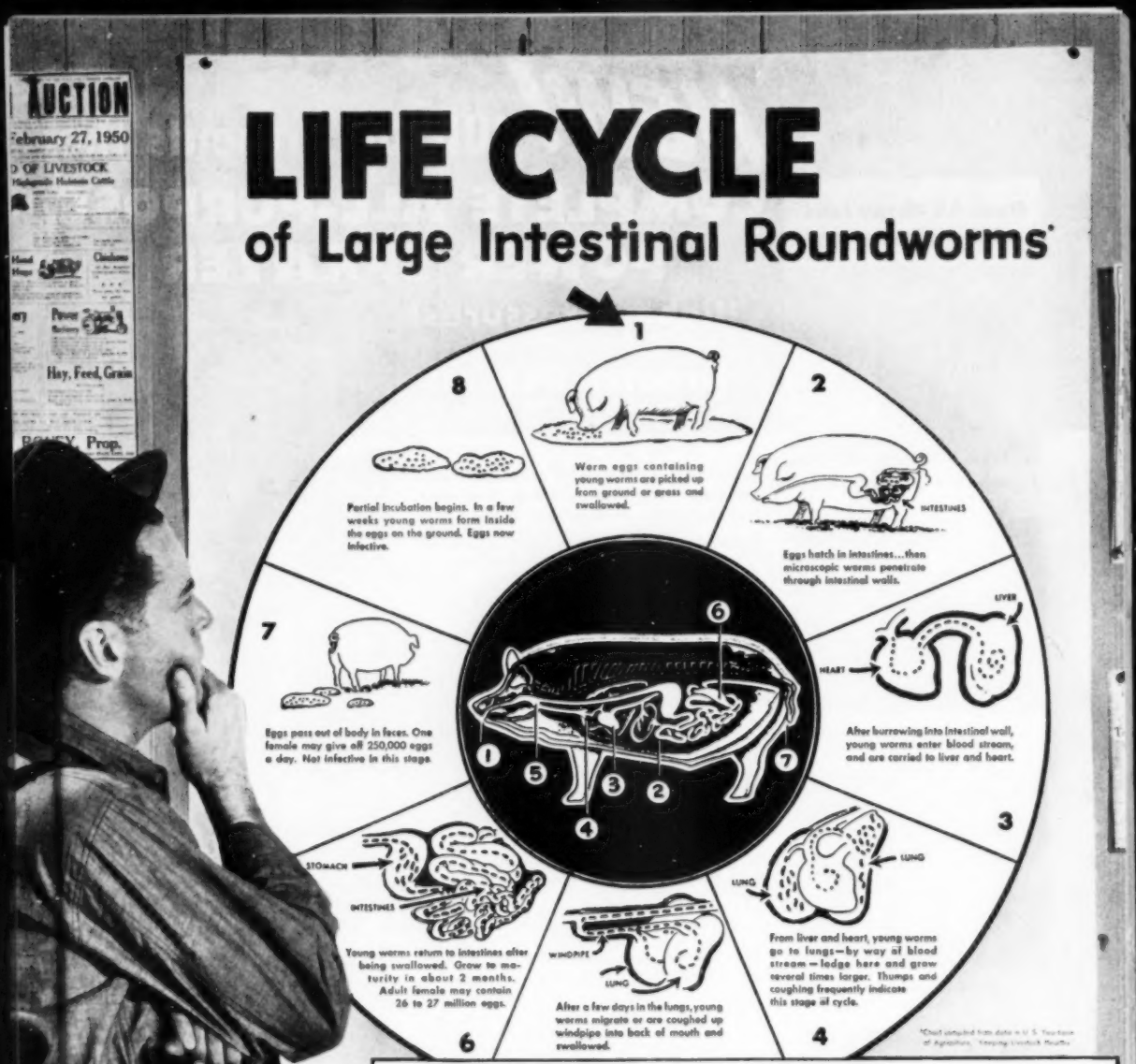


# Thousands now break this vicious life cycle— Save 20% of feed costs—

## *for less than 8 cents per pig!*

This chart shows how easy hogs can be infested with large roundworms. A single female worm may pass 250,000 eggs a day. Often pigs contain more than 100 worms. Thus, millions—even billions—of worm eggs may be deposited in your feedlots each day by just a few wormy hogs!

You seldom see these hidden thieves, yet USDA tests show that from 20 to 74% of hogs are infested. And the time to get them is in Stage 6, illustrated in the chart. In young infested pigs, the worms usually are just entering this stage. From then on they sap vitality, rob the pig of thrift, upset its digestive system, and frequently cause pigs to require 20%, or more, feed for each pound of gain.

### DON'T FEED WORMS—*FEED 'EM OUT, INSTEAD!*

Thousands of hog raisers simply "feed out" these costly parasites with MoorMan's famous sodium fluoride Expellers—Easy-Way* and E-Z-Ex.* No catching or dosing. No hard work this safe, easy way. Just feed your pigs—and out come the worms!

Easy-Way is a complete, factory-mixed, ready-to-feed ration that contains: (1) worm-killing sodium fluoride, discovered by Moorman scientists back in 1934, as the most effective worming agent known, now recommended by the U.S.D.A. scientists as the most effective large roundworm expeller ever discovered, (2) a gentle laxative that aids the expelling action, (3) blood-building minerals that help repair worm damage, and (4) a combination of protein and carbohydrate feeds that provide complete, 3-day rations. No other method is safer or more effective.

For farmers who want to mix their own sodium fluoride worm-killing ration, we recommend MoorMan's E-Z-Ex.* E-Z-Ex contains sodium fluoride, a laxative, and minerals, just like Easy-Way, but no other feed. E-Z-Ex can be mixed with farm grains. You can treat your 50-pound pigs with E-Z-Ex for as little as 8 cents each!

Ask your MoorMan Man about these two safe, easy-to-feed, effective worm-expelling methods that feed out large roundworms—MoorMan's Easy-Way, or MoorMan's E-Z-Ex, or write Moorman Mfg. Co., Dept. R-5, Quincy, Ill.

**Easy-Way and E-Z-Ex Worm Expellers are made under U. S. Patent No. 2027967*

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**FREE:** Copies of this 18" x 26" wall chart in color are available for 4-H Clubs, Vo-Ag classes and adult study groups. Just write Moorman Mfg. Co., Quincy, Ill., for your copy.

## For beef

[ *From page 134* ]

February and are weaned in November when close to 600 pounds. Dave figures that in most years, he will sell his calves rather than feed them out himself.

Albert Webb and his dad, who farm 600 acres of land in Franklin County, Illinois, are a couple of other farmers able to tell you there is a great deal more feed from pasture than they ever thought before they developed a pasture-livestock program. In addition to raising registered Polled Herefords, the Webbs carry on an extensive sheep breeding and feeding operation, making the most of pasture.

Each year, they top the market with lambs taken off Ladino clover and Balbo rye pasture. In 1948, they realized a gain of 361 pounds worth $94.20 per acre from sheep on brome-Ladino pasture. Pastures are used extensively for the beef cattle which are sold as breeding stock.

The Webbs notice something has happened, too, to the productiveness of their soil. This farming is being done on land which only a few years ago produced 10 bushels of corn to the acre. Last year, their corn yield was 96 bushels per acre.

But pastures are not limited to areas farther south or to land that's too poor to grow anything else. A carefully run experiment in Champaign County, Illinois, and supervised by the University of Illinois, shows that if you do it right, pasture and beef production can be as good a money-maker as any other kind of farm operation. Land, that a lot of people think should grow only corn, returned $90 to $100 an acre when properly seeded and pastured.

A 10-acre field was used in the trial. The first week in April, 1946, the field was seeded to a mixture of 3 pounds redtop, 1 pound white clover, and 1 pound Ladino, after 7 pounds of brome to the acre had been seeded in the fall. In 1948, 15 steers were turned on this pasture for a total of 192 days and averaged a gain of 472 pounds per acre.

Henry Grunewald, Benton County, Iowa, farmer and cattle feeder, tells the same kind of a story about the use of pasture on good Cornbelt land. He is convinced that pasture is one of his most profitable crops. He figures his returns from pasture in terms of feed he saves by having his steers on pasture.

For instance, last summer, the Grunewalds ran 110 steers, weighing around 850 pounds at the start, on 15 acres of brome-alfalfa from May 1 to August 1. During the time the steers were on pasture, they also were on a full feed of crushed ear corn and protein supplement. The way they figure it, the brome-alfalfa provided feed which was equivalent to 12 bushels of corn daily, or an average of 72 bushels to the acre. This does not take into consideration the additional protein or the approximately 300 pounds of hay daily that would have been required had the steers been in the dry lot.

These are examples of what can be done with pasture under the right management. The same thing can be done with the acres you may be taking out of corn production and seeding to grass and legumes this year. In fact, this is a sample of what you can do with that permanent pasture you undoubtedly have been keeping on your farm. END

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# CHOLERA WARNING

PIGS SHOULD BE

**VACCINATED**

Hog Cholera season is almost here. The only SAFE pigs are those vaccinated IN ADVANCE. Have your herd vaccinated NOW!

CONSULT YOUR

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His experience and training are your best assurance of proper immunization for dependable protection.

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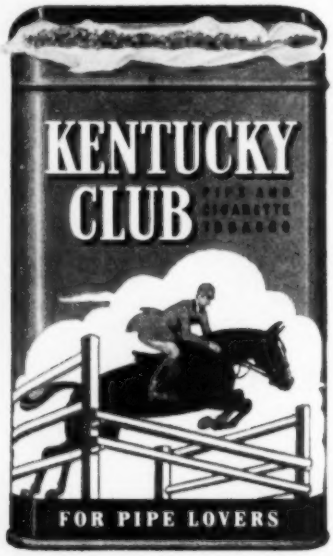



# Laughing at Life

### For the Truth, Go to a Child

A government entomologist lectured to a group of school children on the pest menace of the rat in Alberta.

The note of thanks he received read: "We didn't know what a rat looked like—until you came."

### Nature Takes Its Course

The cute baby on the train was the center of attraction. An elderly man stopped to talk to the child.

"Fine youngster," he said to the young mother. "I hope you will bring him up to be an upright and conscientious man."

"Yes," smiled the mother, "but I'm afraid it's going to be a bit difficult. You see . . . . . ."

"Nonsense," said the gentleman. "As the twig is bent, so is the tree inclined."

"I know it," agreed the mother. "But this twig is bent on being a girl, and we are inclined to let it go at that."

### One Way to Look at It

A man had barely paid off the mortgage on his house when he mortgaged it again to buy a new car. Then he sought out a loan broker to try to borrow money on the car so he could build a garage.

"If I do make you a loan," asked the broker, "how will you buy gas?"

"It seems to me," the man replied with dignity, "that a fellow who owns his own house, car, and garage should be able to get credit for gas."

### Ouch!

A farm boy was sitting on the bank of a creek fishing when a kibitizer remarked, "Your time must not be valuable to you, son. I've been watching you for three hours, and you haven't had a single bite."

"Well, sir," the boy replied, "my time may not be worth much to me, but it's too valuable for me to waste three hours watching another guy fish-catching."

## The Error of Our Ways

*(Calls From the News Columns)*

### A Woman Edits the News

P.T.A. Rummage Sale Friday at the high school. Good chance to get rid of anything not worth keeping but too good to throw away. Bring your husband.—*Boise (Idaho) Daily Statesman.*

### What Do You Plant to Get Elephants?

The Missouri Game and Fish Department plans to plant 12,000 quail in "shot-out" areas and produce 10,000 wild turkeys annually.—*Philadelphia (Pennsylvania) Public Ledger.*

### Wanna Change?

Arabia gave us the dismal system which we still use in counting.—*Cape May (New Jersey) Star.*

### Must Own a Lovesick Rooster

Wanted: To buy White Rock pullets or yearning hens.—*Indiana paper.*

### What Feed for Such an Animal?

For sale: One cow giving milk, clover hay, corn, 2 bushels turnips, 2 bushels Lima beans, heating stove, some house doors and windows.—*Illinois paper.*

SUCCESSFUL FARMING

## Practical Land Use Program

# PAYS OFF THE FIRST YEAR

## this farmer reports

Earl Mead's experience shows how results come fast when a Practical Land Use Program is put to work.

### Here's what you do to get a Practical Land Use Program for *Your* Farm

Simply see your Red Brand dealer. He will help you get a Practical Land Use Program started—at no cost to you. He will work with you to obtain the help of your local U. S. Soil Conservationist to develop a Practical Land Use Program designed especially for your farm. In districts where a Soil Conservationist is not immediately available, your Red Brand dealer will provide you with basic information about a Practical Land Use Program that will help you get started. See your Red Brand dealer *soon*.

**Hear "Red" Brand Tell You How Practical Land Use Helps Any Farm . . .**

Listen to "Red" Brand's on-the-spot radio interviews with farmers from all parts of the country. You'll hear about the remarkable benefits of Practical Land Use. Check your local paper for time and station.




**Depend on Red Brand Fence . . . Galvannealed for longer life**

When you need fence, ask for Red Brand Fence for longer service and lasting economy. Red Brand Fence lasts longer because it is Galvannealed — a special process that fuses rust-resisting zinc to the strong steel fence wires.

*See Your Red Brand Dealer for*

RED BRAND FENCE • RED TOP STEEL POSTS • POULTRY NETTING NON-CLIMBABLE FENCE • NAILS BALE TIES • GATES

**KEYSTONE STEEL & WIRE COMPANY**
PEORIA 7, ILLINOIS

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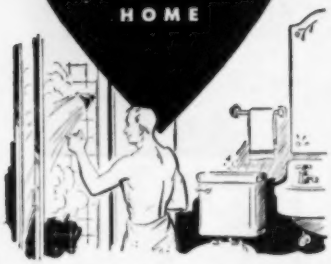
IS THE HEART OF A MODERN HOME



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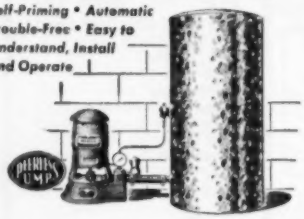


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**Capacities:** Up to 850 Gals. Per Hour
**Lifts:** For Shallow Wells up to 20 Ft.
**Pressures:** Up to 50 Lbs. or More
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Your pleasure and your profit grows when running water flows. Whatever your water needs, you can satisfy them from the complete line of automatic Peerless water systems. All are easy to install and operate. For example, in the shallow well jet, there's only one moving part—the impeller. It is located above ground in the pump case, for ease of inspection and adjustment. Truly the simplest of all water systems to operate. Deep well jet systems also available. For descriptive illustrated literature, mail coupon now.

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W


# NOW is the time to hit grasshoppers

**Look for their eggs in the fence rows. If you find very many, get ready to hit them hard soon after they hatch**

**By James S. Ayars**

Last spring, enough grasshopper eggs lay in the ground along fence rows and in clover and alfalfa fields of the Cornbelt to give us the worst grasshopper invasion we'd had since 1936. Farmers and farm advisers were warned of a possible outbreak, were provided information on latest control measures. Manufacturers of insecticides were alerted and advised of areas where their products might be most needed.

And then something happened. It was the weather. In late May, during the hopper hatching season, cold rain fell for several days over most of the Cornbelt. Billions of potential crop eaters, still young enough to be defenseless against stormy weather, were killed in the cold, rainy period. So most Cornbelt farmers forgot grasshoppers for 1949.

All of which proves that, of all grasshopper controls, weather is by far the most effective. But *its* main weakness is that weather is harder to control than grasshoppers! So modern insecticides have been developed to fill in when weather fails you and helps the hoppers.

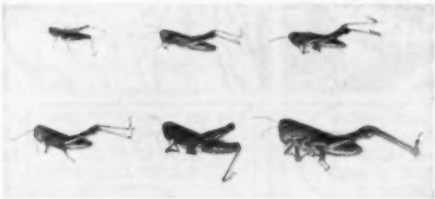
Federal and state survey and reporting services have become so efficient that any of you can know when a general grasshopper invasion is likely to occur. But the situation varies from farm to farm, and general warnings may not apply to every farm within a state or even a county. You can do a better control job by checking your own farm yourself.

In grasshopper control, timing is vital. If the cold rains in late May of last year had come to the Cornbelt 10 days earlier—or later—the grasshopper damage might easily have rivaled that of 1934 and 1936.

In control by modern insecticides, the time of application is as important as the kind of insecticide or the dosage. Not too little, but too late, sums up the reason for most failures to control grasshoppers by insecticides.

A common reason for applying insecticides too late is a lack of facts about the way grasshoppers live. Many times, the

[ *Turn to page 142*



Hit the hoppers early. Then they're most easily killed and are concentrated in small area. Top row: red-legged grasshoppers at three stages of immature growth. Bottom row: differential hoppers at same ages. Watch closely, poison when they start from fence row

Egg masses are most common in grass roots on south exposure of ditchbank. They are earth-colored, inch-long, cylindrical shape

Spraying only fence rows often controls the hoppers before they can move to field. Use chlordane and Toxaphene to control them

Smart idea!

# Orchard booms into a $4,000,000 business!

**Harry and David's unique Bear Creek Orchards cash in on their "Fruit-of-the-Month Club" idea!**

DAVID HOLMES HARRY HOLMES

"From the sale of a modest 467 gift boxes of Royal Riviera Pears in 1933," says Harry Holmes, "David and I got the idea of stretching a Christmas gift throughout the year. That's how our 'Fruit-of-the-Month Club' came into being.

"In addition to Royal Riviera pears, we now send Royal Grapefruit, Oregold Peaches, nectarines, apples, and lots of other rare fruits and delicacies."

For Christmas alone, Harry and David handle over half-a-million shipments from their Medford, Oregon, plant. Throughout the year they ship close to one million gift packages. "This takes a whale of a lot of hauling," says Harry, "and that's why we appreciate the reliability and economy we get from all of our Ford Trucks."

Smart move!

# Ford Truck economy cuts hauling costs 14%!

"We keep an eagle eye on truck costs, and our records show us that Ford Trucks have cut them as much as 14% per package delivered," says Harry Holmes.

"That means we put less into Ford Trucks in the way of expenses for gas, oil and repairs. And we get more work out of them because of their power and because we don't have to be too careful about loading them with a little extra."

**HERE'S WHY AMERICA'S NO. 1 TRUCK VALUE WILL DO MORE FOR YOUR DOLLAR!**

**SAVE GAS.** Ford Loadomatic ignition regulates spark, keeps it *right* for both engine speed *and* load.

**SAVE OIL.** Ford aluminum alloy pistons are camground for oil-saving fit at operating temperatures.

**SAVE MONEY.** Choose from two V-8 and two 6-cylinder engines—Over 175 models up to 145-h.p. Big Jobs—Double Channel frame for big load capacity—Engine-top setting of accessories for easier maintenance—Bonus-Built reserves of strength and power for long life.

**TRUCK-OF-THE-MONTH** at orchard spraying time is this rugged Ford Model F-1 Stake. Hardwood platform floor is steel-framed. Stakes are removable. Load length is 80 in., width 67 in. Cab has adjustable lounge-type seat, Air Wing ventilators in door glass. Rear axle is low-slung hypoid type. Four shock absorbers are standard. And Ford gives you a choice of V-8 or Six engine!

***Ford Trucks Cost Less Because—***

# FORD TRUCKS LAST LONGER

*Using latest registration data on 6,106,000 trucks, life insurance experts prove Ford Trucks last longer!*

# "We get 35 to 40 years' service from our American Fence."

says MR. HERBERT RANK
RR 3, GREENVILLE, OHIO

The Rank Brothers, Herbert and Everett, own and operate a farm of 726 acres. They raise 400 to 500 Herefords a year, milk 38 dairy cattle, market 700 to 1000 hogs and graze about 50 sheep.

THE RANK BROTHERS' FARM is a model of efficient operations. They use the best approved methods of raising livestock, rotating the cattle on five permanent blue grass pastures. The balance of the pastures are provided through a rotation of corn or soy beans, small grains, red clover and timothy.

"We have about 6000 rods of American Fence on the farm," says Mr. Herbert Rank. "Good solid corner posts and line posts add to the life of the fence. If these are strong and the fence is kept tight, the life of American Fence runs from 35 to 40 years. You can't beat this for service."

Ask your dealer for the heavy 9-gauge American Fence that puts an end to fencing troubles.

*6 favorite features of American Fence*

1. Long Life Wires
2. Hinged Joint
3. Tension Curve
4. Full Gauge Wires
5. Correct Spacing of Wires
6. Full Length and Height

AMERICAN STEEL & WIRE COMPANY, GENERAL OFFICES: CLEVELAND, OHIO · COLUMBIA STEEL COMPANY, SAN FRANCISCO
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# AMERICAN FENCE

*There's more American Fence in use than any other brand!*

UNITED STATES STEEL


**Decorating advice.** Stores offering **Successful Farming's** home planning service are listed on page 89. Visit the store nearest you for help with your decorating problems.


New MEYER Hay Conditioner

STREAMLINES THE JOB!

Saves the day that makes the hay. Fluffs cut hay one swath from mower to speed natural aeration and curing. Retains leaves and carotene (Vitamin A)—beats weather hazards. Gains 24 hours over pre-Meyer method.

And Meyer Hay Conditioning saves time and labor—boosts field efficiency—makes your hay worth more. Request FREE Folder and dealer's name today!

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***Take your dirty work out of the kitchen—***

Every farm home needs a well-planned workroom for such typically farm jobs as chicken cleaning, canning, heavy laundering, cream separating. Successful Farming's Building Book will show you how to build a labor-saving workroom into your home. There are hundreds of good, sound, remodeling and building ideas in this outstanding book. Get your copy today by writing to 3205 Meredith Building, Des Moines 3, Iowa. Price, only 50c.



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OTTAWA MFG. CO., 1-023 Brush Ave., Ottawa, Kansas


## Now is the time to hit grasshoppers

[*From page 140*]

hoppers are not discovered until after they have hatched, have already done considerable damage, and have reached an age at which they are tough, hard to kill, and able to move easily from field to field.

If you hear reports that grasshoppers are apt to be numerous in your state this spring, here's how you can learn about conditions on your own farm: Do a little digging in the early spring, along south or west exposures of fence rows, roadsides, and ditchbanks. Dig up clumps of grass, shake off loose soil, and tear the roots apart carefully. Watch for earth-colored, inch-long, cylindrical egg masses among the grass roots just below the surface of the ground.

If you think there are going to be lots of hoppers, check these spots twice a week, beginning about the middle of May. Look for young hoppers. If you can count as many as 5 or 10 per square yard 10 days after the first hoppers hatch, spraying or dusting probably will more than pay for itself.

Your job then is to stop as many of the hoppers as possible at the fence rows. Kill them before they scatter and grow too large and tough to be poisoned easily. Some Cornbelt farmers in recent years have kept their grasshopper damage and cost of treatment very low by spraying or dusting only the fence rows.

Do not apply the poison when the *first* hoppers hatch. If you watch the insects closely for a few days and spray or dust as soon as they start moving into adjoining fields, you will kill the most with the least poison.

Chlordane and Toxaphene are outstanding as effective grasshopper killers. When the hoppers are young, ½ pound of chlordane per acre is enough. When they are half grown, ¾ pound per acre is needed; when full grown, 1 pound. If Toxaphene is used, these amounts should be doubled. The treatments will kill some grasshoppers within a few hours, but not all of them for 3 or 4 days. They will continue to kill any incoming hoppers for 7 to 10 days.

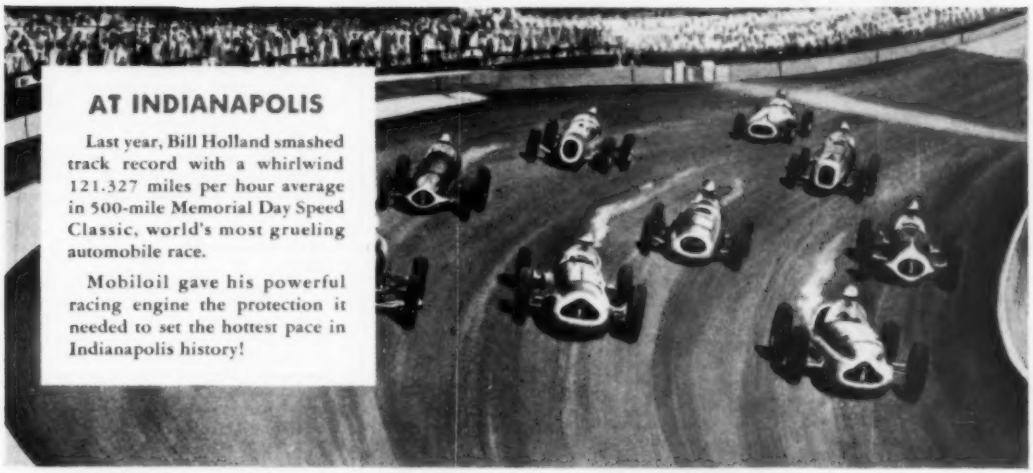
A more spectacular kill can be given by benzene hexachloride at a rate of 0.3 pound of gamma isomer per acre (30 pounds of 1-percent BHC dust or 5 pounds of 6-percent gamma BHC wettable powder in enough water to cover an acre). Most of the hoppers in a fence row or field treated with BHC will be dead within 24 hours. But, as this chemical has little lasting power, incoming grasshoppers will not be killed.

If you find hoppers migrating into your fields, you can set up a barrier by spraying or dusting an area several rods wide along the margins of the fields over which the migration is advancing. The treatments, which should be repeated every 7 to 10 days as long as the migration lasts, are effective against most grasshoppers.

Sprays and dusts are not effective when applied to fields already stripped of succulent leaves by the hoppers. Poisoned baits are more effective in such situations. However, modern insecticides are so effective that, if used in the right places and at the right times, the Cornbelt should never again see stripped fields. END

# Record Busters

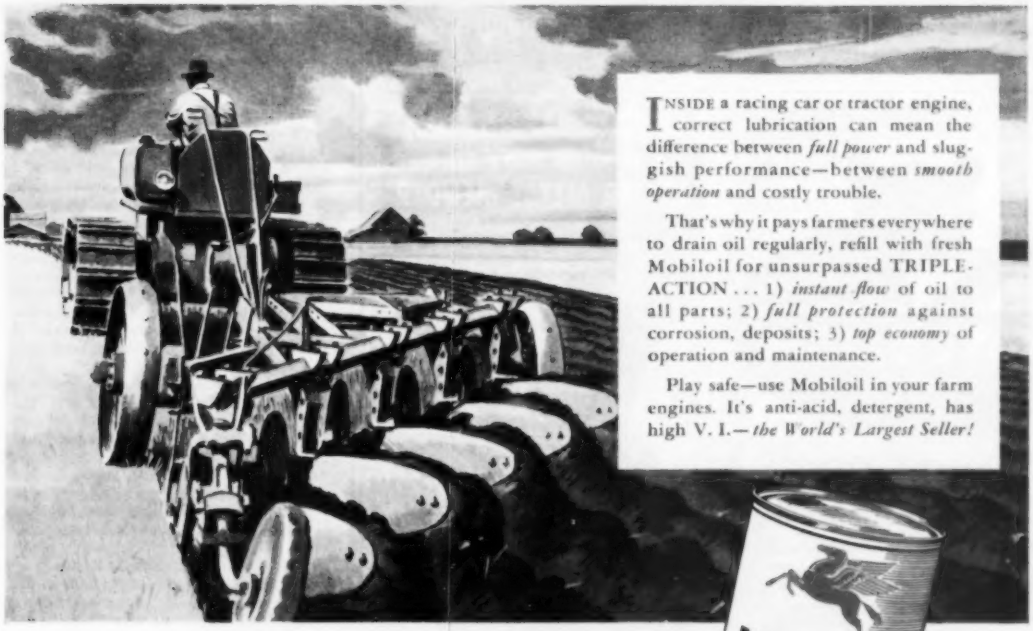
## *KNOW THEIR OIL—SO DO FARMERS!*



### AT INDIANAPOLIS

Last year, Bill Holland smashed track record with a whirlwind 121.327 miles per hour average in 500-mile Memorial Day Speed Classic, world's most grueling automobile race.

Mobiloil gave his powerful racing engine the protection it needed to set the hottest pace in Indianapolis history!



INSIDE a racing car or tractor engine, correct lubrication can mean the difference between *full power* and sluggish performance—between *smooth operation* and costly trouble.

That's why it pays farmers everywhere to drain oil regularly, refill with fresh Mobiloil for unsurpassed TRIPLE-ACTION . . . 1) *instant flow* of oil to all parts; 2) *full protection* against corrosion, deposits; 3) *top economy* of operation and maintenance.

Play safe—use Mobiloil in your farm engines. It's anti-acid, detergent, has high V. I.—*the World's Largest Seller!*

*Call in Your Mobilgas-Mobiloil Man—*

# Mobiloil

**Get Famous Mobilgrease and Mobilube Gear Oil, too!**

SOCONY-VACUUM OIL CO., INC., 26 B'way, New York 4, N. Y. and Affiliates: MAGNOLIA PETROLEUM CO., Dallas, GENERAL PETROLEUM CORP., Los Angeles

**Home Planning Help** There's a store near you offering **Successful Farming's** home planning service. See page 89 for more about this service.

FIX IT WITH EASY TO USE
KESTER METAL MENDER
GENUINE TIN-LEAD SOLDER

Write for NEW FREE 16 Page booklet on SOLDERING

STILL ONLY 25¢ IN MOST AREAS

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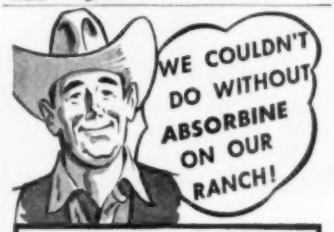
4250 Wrightwood Ave.
Chicago 39, Illinois

## GRATEFUL RELIEF FROM CONSTIPATION

"How grateful I am for having heard about ALL-BRAN! Believe me, I was constipated for *years*. Eating this wonderful cereal for breakfast keeps me *regular*." Mrs. Kunz, 2046 Eastview Ave., Louisville 5, Ky. *Just one of many unsolicited letters from ALL-BRAN users.* You, *too*, can expect amazing relief from constipation due to lack of dietary bulk. Eat an ounce of tasty Kellogg's ALL-BRAN daily, drink plenty of water! If not *completely* satisfied after 10 days, return empty carton to Kellogg's, Battle Creek, Mich. Get DOUBLE YOUR MONEY BACK!




● Experienced horsemen know there's nothing like Absorbine for relieving lameness and stiffness. By speeding the flow of blood to the injury, it helps carry off congestion . . . usually brings swelling down in a few hours! Won't blister or remove hair. A stand-by for over 50 years, a LONG-LASTING BOTTLE of Absorbine costs only $2.50. At all druggists.

W. F. Young, Inc., Springfield, Mass.

**ABSORBINE**


# The PLAY

## Where Playfellows

### Mother Nature's flower garden

Mother Nature was calling her helpers to thank them for helping with her wild-flower garden. She called Miss South Wind, Miss April Showers, Mr. Warm Sunshine—and the jolly little Old Flower Painter with his magic wand.

As they gathered around her, Mother Nature smiled a welcome. But her heart grew sad when she looked into her giant paintbox and saw the beautiful blue paint lying there untouched. Without it, there could be no lovely blue flowers in her garden.

At that very moment, a tiny black cloud slipped across the Old Painter's jolly face and he, too, became sad. Seeing him, Mother Nature, who liked to have everyone happy, gave a merry toss of her head and said, "Come, little helpers! Let's have fun and dance." So they all joined hands, and while Mr. Warm Sun turned on his sunniest smile, Mother Nature and Miss South Wind swept the ground till there was a nice black carpet to dance upon.

When they had finished, Miss South Wind looked up to find the little cloud still on the Old Painter's face. So she filled up her cheeks and "puff-puff-puffed." But the gloom-cloud held on with all his might. Then, she huffed up her cheeks and puffed again, this time so strong the cloud lost his balance and landed with a splash "ker plunk!" right in the middle of the blue paint. He spilled it all over Mother Nature's black carpet.

As the Old Flower Painter hurried to brush the paint away, a strange and wonderful thing happened. April Showers shed dancing raindrops, Mr. Sun's smile grew warmer, and the black carpet was suddenly covered with the most beautiful blue, bell-shaped flowers you ever saw.

Mother Nature looked down and saw them standing shyly beneath her. She lifted one up so gently in her hand and looked into its face. Then she smiled and all the sadness vanished. As she turned and thanked Miss South Wind for her wind of kindness, she said, "We will call these 'bluebells.'" The new flowers tinkled their delight and the helpers drew close while Mother Nature softly sang:

"All is well at the close of evening
There's a soft tinkling of bells in the air
The bluebells in the valley are calling
Come now to the sweet hour of prayer."

### Tree names

Do weeping willows really weep?
Do fir trees bear soft fur?
Is there a purring kitten hid
In every juniper?

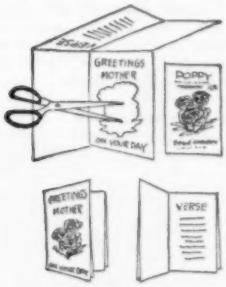
Are ash trees made of ashes, then?
Do walnuts have a wall?
Do pawpaws paw? I wish I knew
The answer to them all! END

# HOUSE

**meet every month**

**A Mother's Day greeting.** A colorful pack of her favorite flower seeds makes this lovely "growing" greeting for your mother.

Fold an 8x10-inch piece of white typing paper in half. Fold it in half again to form a card. On cover page, outline the flower picture by holding the seed packet underneath. Cut around this line and paste the packet inside, framing its picture through the opening.




Print a title such as "Greetings, Mother, on your day!" or "To Mother with love" on the front of the card.

Now, open the folder and on the right-inside page, print a little greeting. You might use the following verse—or try your hand at a rhyme of your own.

I send these seeds of gladness
Not for Mother's Day alone,
But to make each coming day
The brightest one you've ever known!

**Fun for little cooks**

Here's a treat for your "sweet tooth"—good butterscotch that takes only 10 minutes to make.

You will need

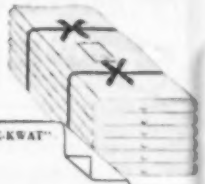
**4 cups sugar**
**4 tablespoons vinegar**
**4 tablespoons butter**

**Butter** the inside of a frying pan and 2 large plates.
**Measure** the sugar into frying pan.
**Scoop** a hole in the center and add the butter.
**Pour** vinegar over the top and set the frying pan on the stove over a low flame.
**Stir** ingredients constantly until the sugar is smooth as honey.
**Pour** it out onto the well-buttered plates and cool. Break into pieces for delicious nibbling. **END**

I'm "branded" for life...

"Once...when I was younger and knew no better, I bought sheets that were not Pequots. Never again! The Pequots I had wore so much longer, and kept their 'oomph' so much better, I've made Pequot my brand for life."
—*Mrs. Catherine Warfield, Campo, Calif.*

Compare them in use...Pequots win out every time! Not only for extra wear, but also for the way they keep their smoothness and fresh whiteness through the years. Make Pequot *your* lifetime brand. It pays! Pequot Mills, Salem, Mass.



PEQUOT PLUS-SERVICE SHEETS PILLOW CASES

*Pronounced* "PEE-KWAT"

PEQUOT plus service SHEETS

FALSE TEETH
KLUTCH holds them tighter

KLUTCH forms a comfort cushion; holds dental plates so much firmer and snugger that one can eat and talk with greater comfort and security; in many cases almost **as well as with natural teeth.** Klutch lessens the constant fear of a dropping, rocking, chafing plate. 25c and 50c at druggists. . . . If your druggist hasn't it, **don't waste money on substitutes,** but send us 10c and we will mail you a generous trial box. ©L. P. INC.

**KLUTCH CO., Box 5036-E, ELMIRA, N. Y.**

***Get help with your decorating problems***

The leading stores listed on page 89 are cooperating with *Successful Farming* to offer you advice and assistance with all your farm home building and decorating problems. Turn to page 89 right now, and learn the name of the store nearest you. And be sure to stop in, your next trip to town.

BUNIONS
Enlarged or Tender Joints
Relieved in Seconds!

Soothing, cushioning, protective Dr. Scholl's Zino-pads for bunions instantly lift painful pressure on the sensitive spot. Enjoy real relief as millions do with the world's largest selling pads for bunions!

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In a canoe on one of Québec's myriad beautiful lakes or rivers . . . in a car over Québec's splendid roads through picturesque valleys and historic centuries-old towns and villages. Enjoy traditional Québec hospitality in comfortable, modern inns and hotels.

LA PROVINCE DE Québec

*For help planning your trip write the Provincial Publicity Bureau, Parliament Buildings, Québec City, Canada; or 48 Rockefeller Plaza, New York City 20.*

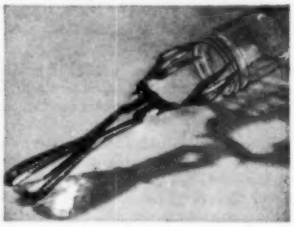
*"Continental manner! Bah, him and his grand flourishes . . . anybody can make those glamorous salads with Star-Kist Tuna!"*

Any salad tastes better, naturally, when you make it with Star-Kist Tuna! Only the smaller, naturally better-tasting tuna are packed under this quality label. Use Star-Kist Tuna and your best recipes will taste better. They'll have better flavor, finer texture, and more eye-appeal. Try it! Get Star-Kist Tuna today!

## What's new in homemaking

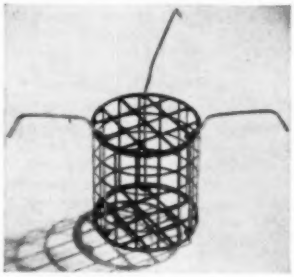
[ *From page 24* ]

**Tongs belong** in every kitchen. They protect your hands and arms from spattering grease, boiling water, and steam



when used to lift vegetables, meats, hot biscuits, steaks, French fries, corn on the cob, and other hot foods. The toggle joint gives a firm grip with only slight pressure. Available in department, hardware, and variety stores, 50 cents. *The Acme Mfg. Co., 2 Orange Street, Newark 2, New Jersey.*

**Poise for your posies** is possible with a flower arranger. It holds just a few flowers or a full bouquet. Lift bouquet and ar-



ranger, intact, out of the vase for a change of water. Arranger fits any tall or low vase from 3 to 6 inches wide. Available in department, gift, and floral shops, or $1, postpaid, from *Retko Products Co., Box 102, Maplewood, New Jersey.*

**Green thumbs** are for successful gardeners, and the green thumb legend has been put to use in washable utility gloves. Practical for gardening, house cleaning, and similar wear, the gloves are soft in-

side. The outside is vinyl-treated to repel dirt and soil. In stores, 79 cents, or direct, postpaid, 85 cents, from *Edmont Mfg. Co., Coshocton, Ohio.*

**Iron in comfort.** This ironing board stands 25 inches high—comfortable height for sit-down ironing. By releasing a convenient lever, the ironing surface may be moved 12 inches in either direction, enabling you to iron at either end of the board without moving. The board comes complete with pad and shrink-

proof cover already installed. Postpaid, $12.95, from *Horace Anderson's Giftcraft, 1234 E. 47th Street, Chicago, Illinois.*

**Chair of many uses**

Instructions make assembly of prefinished parts simple. Seat and back are upholstered in Koroseal, with springs in seat. In department stores, or direct, $15.95, plus postage, *Bentwood Products, Inc., 1355 S. 10th Street, Louisville, Kentucky.*

**Juice in a jiffy.** This little juicer fits over a china cup, and its reamer is perfected to juice quickly and completely. It will supplement your large juicer when you have just one or two oranges, lemons, or limes to juice. The slotted holes strain out seeds and pulp. Fits

easily in a drawer, or on a wall where you can reach for it when you want it. *Foley* juicers are found in department, chain, and hardware stores; 39 cents.

"Child's Play"—decorate your kitchen ..in minutes!

It actually takes just minutes, only a few pennies, to decorate your kitchen beautifully with colorful Royledge. Simply place on shelf and fold down the color-bright doubl-edge. Your kitchen "dances" with glorious reds, blues, yellows—whatever you choose. And new "Plasti-Chrome" Royledge is brighter, stronger than ever. See glorious new patterns now at 5 & 10's, naborhood, hardware, dept. stores.

Trade Mark "Royledge" Reg. U. S. Pat. Off.

STARTING APRIL 21, see Royledge Carnival of New Spring Patterns at 5 & 10's, naborhood, hardware, dept. stores

Plasti-Chrome
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Shelving Paper and Edging all-in-one 9-ft. pkgs.

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Gives correct size for trucks, machinery, etc. —tells how to use Tarpaulins for profit on the farm. Send card today for your copy.

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**Completely automatic**—hot water when you want it!

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**Insist on** a G-E Water Heater... see your dealer, today!

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Here's a book that shows you how to build better farm buildings. There are illustrations and floor plans of all types of buildings. Working drawings available for each. And a complete remodeling section helps you get more use from the buildings you have now. Only 50c.

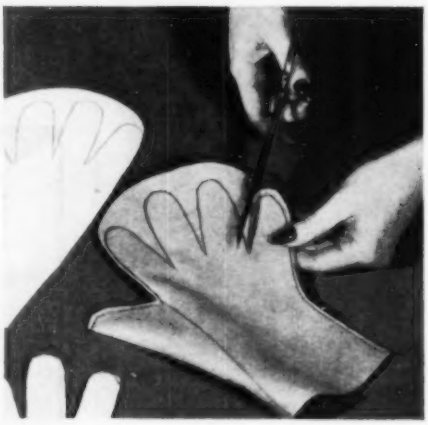
# Keep busy hands pretty in chore gloves

**By Doris Aller**

It takes only a few minutes to stitch up a pair of these perky hand savers. They're gloves-of-all-housework with uses galore. You'll find they make excellent shower gifts, too

Start by making a pattern. Fold light cardboard, 11" x16", in half. Place one hand on the surface, palm down, thumb at fold. Spread fingers and trace around, allowing about 1/2" on outside of forefinger and little finger and 1/4" at finger tips in outline. Cut the pattern mitten-shape; cut out fingers after sewing. Open pattern. Slash one "hand" from cuff to forefinger in straight line. The thumbless piece becomes glove palm while the larger piece is glove back

With soft pencil, trace both patterns on material (canvas, suede cloth, buckskin, felt, chamois), depending on the duty. Using heavy thread and medium-long machine stitch, seam palm section to back. Follow the pencil outlines, stitching 1/8" inside other edges. Try the gloves on and if fingers are too roomy or too tight, adjust the stitching before cutting. Then trim around the fingers, leaving about 1/8" seam. Don't turn gloves inside out. They are ready to wear "as is" right now



# Westinghouse

*Announces*

## The World's First and Only Fully Automatic

# FROST-FREE

Trade Mark

U. S. Patents Issued Nos. 2,469,173 and 2,524,309

## REFRIGERATOR

**It's Here! The Only Refrigerator That *Automatically* Defrosts Itself... *Automatically* Disposes of Defrost Water . . . Does It So Fast Even Ice Cream Stays Hard**

**Now, for the first time,** you can *truly* forget all about defrosting. With the new Westinghouse "FROST-FREE" Refrigerator you can wipe the word . . . and the work . . . right out of your mind.

**Think what that means.** No more frost to scrape . . . no more water to carry and empty . . . no more melting and refreezing of ice cream and frozen foods, they never get a chance to thaw . . . no more food to remove and replace again . . . no dials to set or clocks to turn.

**The new, fully automatic "FROST-FREE" is simplicity itself in operation.** You see, every time your Refrigerator door is opened, warm, moist air flows in. This warm, moist air is what causes frost. So, the "FROST-FREE" system *automatically* counts the door openings. After the 60th door opening, when the first thin layer of frost starts to form, it swiftly and *automatically* wipes out every trace of frost. Does it so fast . . . that the temperature of your foods changes practically not at all. Since the Freeze Chest normally operates at zero, your frozen foods, ice cubes, and even your ice cream, stay brick hard *always*.

**The Amazing Story of Two Identical Bricks of Ice Cream**

*Ice cream on right went through a defrosting cycle in the new "FROST-FREE" Westinghouse. It came out as you see it here . . . still hard, the two flavors still separate.*

*Ice cream on left went through so-called "automatic" defrosting in a refrigerator equipped with a defroster. The camera tells what happened. The ice cream had melted, flavors ran together. It lost its shape, flavor, appetite appeal.*

**What happens to the frost water?** There's very little of it, and that little is *automatically* evaporated . . . *quickly*. As far as you're concerned, the defrost water does not exist.

**This Refrigerator works less . . . and so does your budget!** Since frost never really forms in this amazing new Refrigerator, there's no accumulated frost-resistance to combat. As a result, the Westinghouse Economizer Mechanism operates at peak efficiency . . . *and costs less to run.*

**In every way,** this new "FROST-FREE" is today's last word in modern refrigeration.

**Fully automatic defrosting is only part of the story.** This great new "FROST-FREE" also has all these marvelous features:

- An *Automatic* Butter Keeper that keeps a half pound just right for spreading.
- A Meat Keeper that *automatically* keeps meat at just the right temperature . . . and keeps it that way for days.
- Two Humidrawers that *automatically* maintain the right temperature and humidity to keep fruits and vegetables.
- It even has an *automatic* door closer, in case you forget to close it yourself.
- And a Sterilamp® germicidal light guards against transfer of food odors, protects health, insures cleanliness.

**All Westinghouse Refrigerators Have**

**COLDER COLD**

**For Safer, Surer, Food Keeping**

COLDER COLD means lower temperatures in the Freeze Chest to freeze foods faster . . . to make ice cubes quicker . . . to keep frozen foods safely frozen. At the same time, you get safe, steady cold in the Main Food Compartment, even with zero cold in the Freeze Chest . . . and sure, moist cold in the Humidrawers.

SEE THE REVOLUTIONARY NEW "FROST-FREE" AND THE OTHER GREAT, NEW WESTINGHOUSE REFRIGERATORS AT YOUR RETAILER'S, NOW PRICES START AT $189.95

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**APPLIANCE DIVISION • MANSFIELD, OHIO**

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**YOU CAN BE SURE..IF IT'S Westinghouse**

NO OTHER FILTER DISC CAN CLAIM TO REMOVE MORE SEDIMENT

*and yet Perfection*®

DUBL-CHEM-FACED MILK FILTER DISCS

*cost you less!*

EASIER TO USE EITHER SIDE CAN BE UP!

**From MAINE to CALIFORNIA and from every dairy state, successful dairymen spread truth about *Perfection* MILK FILTER DISCS**

From MAINE, a farmer writes:

*"Best I ever used! They get the milk cleanest"*

From CALIFORNIA, a farmer writes:

**DUBL-CHEM-FACED** *"are the best... by sediment test"*

Many farmers tell us that ONE does the work of TWO ordinary filters. You save money at every milking!

**AT LEADING DEALERS**

BUY THIS 3-CARTON PACKAGE OF 300 and save money

ASK YOUR DEALER ALSO FOR *Perfection*® **SANIT-AIDS**

the modern cleaners (6 for 39¢ . . . economical, sanitary, lint-free, last a long time)

**WRITE FOR FREE SAMPLES**

**SCHWARTZ** MFG. CO., Two Rivers, Wis.
AMERICA'S FOREMOST MANUFACTURER OF SANITARY FILTERING AIDS FOR DAIRYMEN

# Dairy

### Saves 75 cents per calf weekly

WATCHING with a great deal of pride his herd of healthy, frisky Holstein calves, Lewis Reisner solemnly declared, "I'll never let another calf nurse on a dairy cow after he's three days old."

Reisner buys a powdered substance at a local cheese factory to feed his calf herd. The powder consists of dry skim milk, buttermilk, and other milk solids which once were considered waste. The powder is placed in solution with warm water and fed to the animals before it has had time to cool (see picture below).

Reisner, who farms near Warren, Illinois, lists three main reasons for the above statement. First, he believes control over the amount of feed eliminates the condition that brings on scours, caused by overfeeding. Second, he can feed the calves before milking time and forget them while attending to chores in the milking barn. And, last but not least, he is saving money.

He allows the newborn animal to nurse on its mother's colostrum milk during the first three days of its life. Pressed by a labor shortage a few weeks ago, Reisner never found time to take a calf from its mother at the end of the 3-day period. The calf gorged on the mother's milk, developed a case of scours one day, pneumonia the next, and died the next day.

He milks 12 cows. Since the new feeding program went into practice, he has raised, or is in the process of raising, 16 calves. He estimates a saving of 75 cents per calf per week, and is reminded of the savings each week when that extra fresh milk heads for the creamery instead of down the calves' gullets.

Dairymen in the neighborhood, watching with critical eyes, will vouch for

Lewis Reisner avoids the calf scours, saves money, cuts chores by taking calf from dam

Reisner's feeding program success. He already has received offers of $100 each for five 9-months-old calves, and recently sold a yearling for $120.—*M. T., Iowa.*

### Very little DDT in milk if—

BARN SPRAYS, particularly DDT, can be applied in well-managed dairy barns without danger of significant milk contamination if simple precautions are followed. This point was brought out in a cooperative experiment conducted by the New Jersey Agricultural Experiment Station and a large manufacturer of chemicals and spray materials.

Walls and ceilings were sprayed thoroughly, but feed troughs and drinking fountains were covered with tarpaulins on the four New Jersey farms where the tests were made. Spray was applied with a power sprayer at 200 pounds pressure.

### Looks good for artificial breeding

D.H.I.A. RECORDS gathered on 264 unselected daughters of 45 bulls used artificially since 1942 in Iowa have averaged 10,565 pounds of milk and 409.4 pounds of fat in 289 days. One hundred and seventy-three of these daughters have dams with records. These daughters averaged 11,145 pounds of milk and 426.5 pounds of butterfat in 291 days, compared with their dams which averaged 10,450 pounds of milk and 402.5 pounds of fat in 297 days.

This increase of 24 pounds of fat over the dams is encouraging, in view of the high production attained by the dams.

### Low-cost growth with roughages

GOOD-QUALITY roughages may satisfactorily supply most of the feed nutrients needed for normal growth and development of dairy heifers from about 6 months to 2 years of age.

A series of experiments with Holstein and Jersey heifers was conducted by workers at the Missouri Experiment Station. They found that the average Holstein heifer, grown at a normal rate from 6 to 24 months of age on a maximum roughage and pasture-use program, ate 854 pounds of grain concentrates, 2,938 pounds of legume hay, 3,016 pounds of silage, and was on good pasture 288 days. Jersey heifers ate an average of 879 pounds of grain, 3,385 pounds of hay, 1,820 pounds of silage, and were on pasture 284 days.

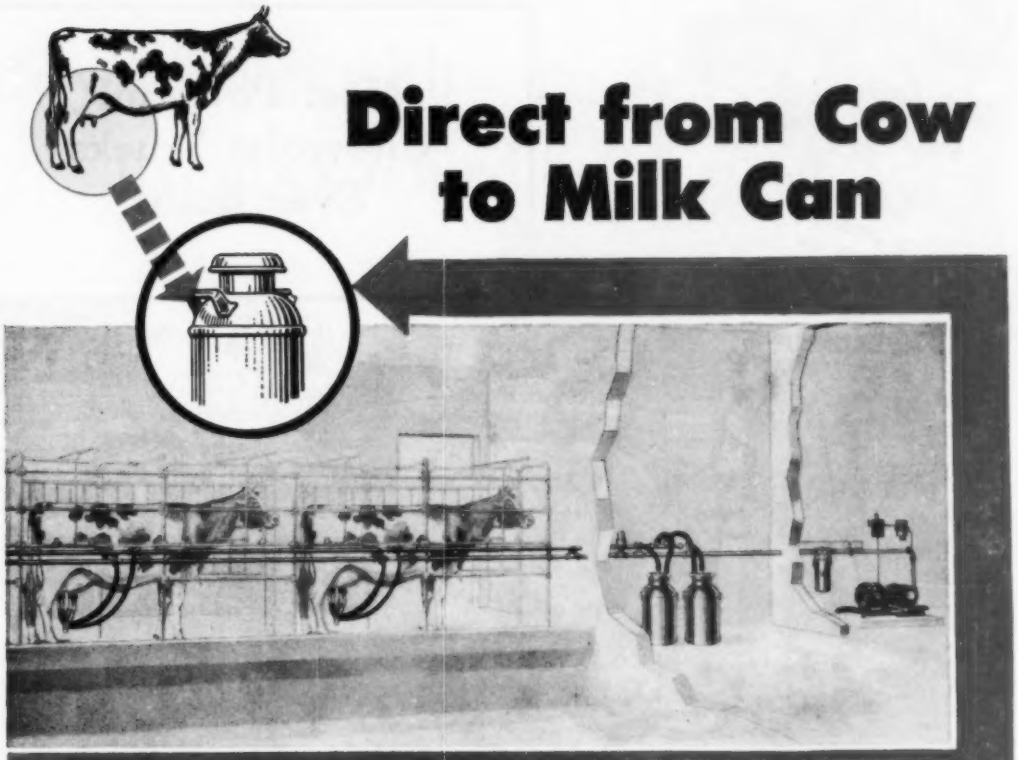
The time required to grow a heifer is a factor not to be overlooked because it is a nonproductive period. Any system of management which fails to produce approximately normal growth at freshening time is poor economy.

Much emphasis must be placed on the heavy feeding and rapid growth of the heifer to 6 months of age to get proper growth and development on a heavy roughage-feeding program. The paunch and barrel capacity of the heifer below 8 to 9 months of age is not sufficiently well developed to hold enough total roughage to supply the nutrients for greatest growth. Feeding of the right amounts of milk and concentrates the first few months cannot be emphasized too strongly. Heifers from 8 to 24 months of age can handle roughage very satisfactorily.

The use of such a program means economical growth, strong and hardy heifers, good soil-conservation practices, cheap housing, and efficient use of labor. —*H. A. H., Missouri.*

### Correction

In the March issue, page 155, it was stated that Harry Frink and son "feed from 1 to 2 pounds of grain per pound of milk in the winter." This should have read "feed 1 pound of grain to 2 or 3 pounds of milk in the winter."



# Direct from Cow to Milk Can

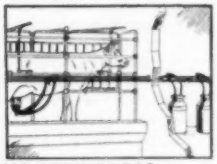
## THE DE LAVAL MODEL F COMBINE MILKER

**NO STOOP—NO SQUAT**

With the De Laval Model F Combine Milker you don't stoop or squat. You work comfortably erect with udders at chest height for easiest attaching and removal of teat cups—and for close udder inspection.

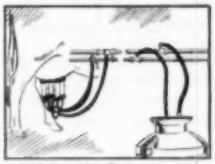
**NO CARRYING**

With the De Laval Model F Combine Milker you don't waste your valuable time and walk unprofitable miles every year carrying milk from the barn to the milk house. This wonderful De Laval Milker does the entire job for you!



**NO BARN ODORS**

With the De Laval Model F Combine Milker the milk—from cow to milk can—is sealed during the entire milking process in an air-tight system. Barn odors, dust and other foreign matter are sealed out.



**NO POURING**

With the De Laval Model F Combine Milker you don't waste your time straining and pouring milk. This modern milker has a built-in filter and empties the milk into milk cans—one can at a time.

**OTHER DE LAVAL MILKERS**

**De Laval Magnetic Speedway • De Laval Sterling Speedway**
**De Laval Speedette**

● We invite you to take a good look at the simplest, fastest and most sanitary milker you can own. Hundreds of these De Laval Model F Combines have been in use for years . . . but during the next few years you will see thousands more go into operation, because *this is the milker that completely mechanizes your milking operation.*

The cows bring the milk to the milker, which delivers it directly into the milk cans in the adjoining milk house. The automatic De Laval Combine can fillers fill one can at a time and cans may be changed without interfering with the milking. *The operator does not stoop, squat, carry or pour milk. Result is one-man operation for lowest production costs.*

Whether you have a stanchion type barn or loose housing, the De Laval Model F Combine Milker installed in a simple, low-cost milking room will enable you to milk more cows in less time with less help—but with *increased* profits.

**De Laval**

**THE DE LAVAL SEPARATOR COMPANY**

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Please send me printed matter on:

☐ The De Laval Model F Combine Milker

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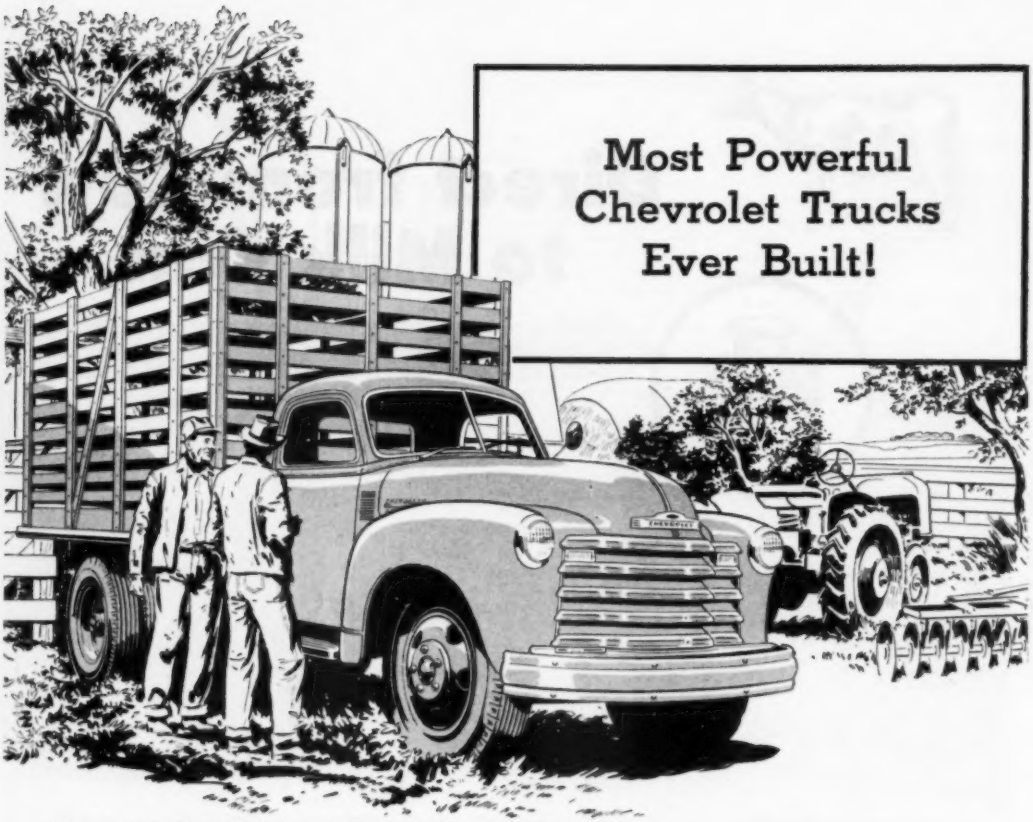

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Always powerful, these new Chevrolet P•L trucks are now more powerful than ever. Advance designed for every hauling job, they are at home on the range, and on the highway. Built to work, built to last, they take tough loads and the roughest roads.

Check them for features—they're far ahead in all that matters to farmers. Check them for payload, performance, popularity, price—no other trucks give more yet cost less to buy, to run, to own. Check them for power—*these* are the most powerful Chevrolet trucks ever built!

CHEVROLET MOTOR DIVISION, *General Motors Corporation*
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**ADVANCE-DESIGN TRUCKS**

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For low operating costs per ton mile, smart buyers choose Chevrolet P•L trucks. They are advance designed to cut running and repair costs. Their rugged construction lets you deliver the goods with real reductions in operating expense.

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On the hills or on the straightaway, the efficient new Chevrolet P•L trucks are far ahead in performance. They give you high pulling power over a wide range of usable road speeds—and high acceleration to cut down total trip time.

## P*opularity L*eaders

In every postwar year truck customers have bought more Chevrolets than any other make of truck—convincing proof of the owner satisfaction they have earned through the years—proof that Chevrolet is America's most wanted truck.

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From low selling price to high resale value, you're money ahead with Chevrolet trucks. Chevrolet's rock-bottom initial cost—outstandingly low cost of operation and upkeep—and high trade-in value, all add up to the lowest price for you.

***Plus all these PLus features:*** **TWO GREAT VALVE-IN-HEAD ENGINES: the new 105-h.p. Load-Master and the improved 92-h.p. Thrift-Master—to give you greater power per gallon, lower cost per load • THE NEW POWER-JET CARBURETOR: smoother, quicker acceleration response • DIAPHRAGM SPRING CLUTCH for easy action engagement • SYNCHRO-MESH TRANSMISSIONS for fast, smooth shifting • HYPOID REAR AXLES—5 times more durable than spiral bevel type • DOUBLE-ARTICULATED BRAKES—for complete driver control • WIDE-BASE WHEELS for increased tire mileage • ADVANCE-DESIGN STYLING with the "Cab that Breathes" • BALL-TYPE STEERING for easier handling • UNIT-DESIGN BODIES—precision built.**

# Are you smart with livestock remedies?

**Getting mixed up on names of drugs, doubling the recommended dosage, or substituting one remedy for another can be quite costly**

**By Dr. J. W. Bailey**
Veterinarian

As with everything else, there are good medicines and bad ones. As a result, their effectiveness varies greatly.

If they do what they are supposed to do for a sick animal, little is heard about the matter. Let one fail, though, and the owner grumbles. If, as sometimes happens, the medicine makes a condition worse or even causes death, a howl often goes up that can be heard clear across the county.

However, the medicine is seldom to blame so much as the man who treats the animal. This is because most of our best remedies are also poisons and capable of doing real damage if improperly used.

For example, consider arsenic and strychnine. There certainly is no question about their being poisonous; yet both have been used for years as medicines. In proper doses, both drugs may be important aids in promoting good animal health.

Though not so widely known as being poisonous, many of our other valuable medicines also must be handled with care. If not, mishaps may occur to make treatment very expensive indeed. Sometimes these accidents happen because the wrong medicines are used, and at other times trouble is due to the improper use of correct drugs.

Just out of curiosity, let's have a look at some of those cases. First, we'll see what can happen when the wrong ones are used.

A man was told that copperas could be effectively used to remove worms from horses. All he had to do was to mix a little of it with the grain for a few days.

Now there's nothing wrong with copperas or iron sulfate or green vitriol, as it is variously known. Old horsemen have been using it for years, though it is doubtful if it is much good against worms.

However, this particular owner didn't hear so well, and went to a drugstore and bought copper sulfate, or blue vitriol, instead of copperas. A course of treatment with this product took care of the worm problem by killing the horses.

A swine raiser had some fattening hogs that began losing weight and acting generally sick. A neighbor suggested dosing them with mineral oil.

Whether or not the treatment would have helped those particular hogs is debatable, but if given as prescribed it certainly would have done no harm. However, the owner discovered he was fresh out of mineral oil and used kerosene instead. It didn't cost him much to fatten his hogs that year, for most of them died shortly after treatment.

A dairyman had a cow that was "off feed," and he decided to give her linseed oil as his father had once done. Unfortunately, he used oil that had been bought for mixing with paint. Such oil has been boiled with lead oxide and is highly poisonous, while the raw linseed oil is little more than a powerful laxative. Well, it cost this owner a good cow to find out about the two different kinds of linseed oil.

Those are a few examples of what may follow use of the wrong medicines. Overdosing is another thing that often causes mishaps with medicines. In this respect many stockmen are like the mountain boy who needed size 10 shoes but confessed that 11's felt so good that he always wore 12's. As far as medicine is concerned, many people seem to think that if a teaspoonful helps a little, a half gallon ought to do just that much more good for an ailing animal.

You can guess what will happen when strychnine is used that way, can't you? However, a deadly poison need not be fed to animals in order to cause death.

[ *Turn to page 154*


# Now! Tractor Tire UNCONDITIONALLY GUARANTEED

for 2 years

**ARMSTRONG Rhino-Flex TIRES**

WE build features into Armstrong Tires you'll find in *no other tire*. It's these features that make Armstrongs *extra rugged*. Rhino-Flex construction—the shock-absorbing carcass that's tougher, more flexible. *"Heat-treated" cords* that resist blow-outs. You get these extra features at no extra cost in Armstrong tractor, passenger and truck tires. Try just *one* Armstrong, Mr. Farmer, and you'll demand Armstrongs every time! *Armstrong Rubber Company, West Haven 16, Conn., Natchez, Miss., Des Moines, Iowa. Export Division: 20 East 50th Street, New York 22, N. Y.*

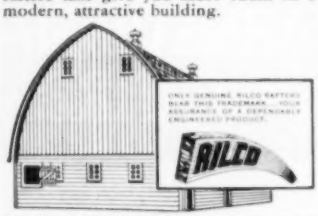
*Rugged as a Rhino*

ARMSTRONG TIRES

# When you build a RILCO BARN we do half the work

Rilco rafters are ready to put up when you get them. You never touch a drill or a saw. Because we've cut 'em to fit exactly . . . drilled all the bolt holes at exactly the right places. All you do is swing 'em into position, and bolt 'em down. You can have all the framing done ready for roofing and sheathing *in less than one working day!* Be sure you get genuine Rilco Rafters at your lumber dealer.

Send the coupon for all the information on these strong, glued-laminated wood rafters that give you more room in a modern, attractive building.

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RILCO works wonders with wood

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## Livestock remedies

[ *From page 153* ]

Consider what happened to some steers in Texas.

Solutions containing 1 percent of white arsenic once were used as dips for killing skin parasites such as mange mites and lice on large animals. Even when used in the 1-percent strength, such dips are mighty dangerous concoctions.

It is not surprising, then, that a 2-percent solution caused the death of 200 cattle after they were dipped in it. Enough arsenic was absorbed through the skins of the soaked animals to kill them, so the double-strength idea didn't work out so well in this instance, at least.

Numerous owners have discovered too late that even ordinary stock salt is poisonous when used in overlarge amounts. It is one of the old reliable home remedies for bloat in cattle, but our friend who used 6 pounds of it in a drench learned that such amounts can kill cows. At least, his patient died.

The same danger exists in the case of seemingly harmless baking soda. This is because this old kitchen stand-by is a mild caustic. We have the word of a top-notch Ohio farmer for the story that he killed a bloated calf by giving it a pound of the compound.

We have already told how copper sulfate killed some horses when the owner thought that it was the same thing as "copperas." However, it has caused plenty of livestock deaths in other ways. There is no question about its being poisonous, and most people fully realize the danger. But it still is given often in more than the 1-percent solution recommended for internal use on animals. Not so long ago we saw a bunch of dead sheep that had been killed by the use of a 10-percent copper sulfate solution at worming time.

This matter of overstrong solutions often causes serious trouble when other compounds are involved, too. Such old reliables as Lysol, Creolin, turpentine, chloral hydrate, carbon tetrachloride, tetrachloroethylene, and many others are capable of causing severe burns of the skin or mouth unless they are properly diluted.

We still remember the man who drenched a bloated cow with raw turpentine and practically burned the whole mouth and throat out of the poor beast. We saw the same thing happen

SUCCESSFUL FARMING

"Yes sir! Here it is 10 years, Mrs. Beardon, and it seems like I was here only yesterday."

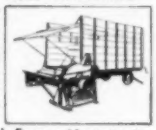
**GEHL** *the most wanted*

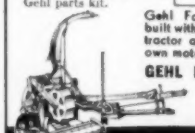
## *Forage Harvesters*

The Gehl has *more years of proved performance* back of it than most forage harvesters. Thousands of users agree that the Gehl leads in better cutting, all-'round performance and *value per dollar*. Built to stand up year after year. Like the long-famous Gehl feed cutters and silo fillers, the Gehl Forage Harvester *cuts uniformly clean and fast* . . . no shredding. Does an equally fine job in windrowed hay, corn or other row crops. Sickle bar attachment also available. *Saves many man-hours and back-breaking work!*

**GEHL EQUIPMENT DOES THE COMPLETE FORAGE JOB FROM FIELD TO STORAGE**

**Gehl Blower** elevates fodder to highest silo or mow. Power take-off from blower, or separate electric drive operates Gehl Self-Unloading Wagon and others. FREE PLANS for making self-unloading wagon, using Gehl parts kit.





Gehl Forage Harvester is built with power take-off from tractor as illustrated, or with own motor.

**GEHL BROS. MFG. CO.**
Dept. ME-502
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*There's Nothing Better Than a GEHL!*


**For friendly help** with your building, furnishing or decorating problems, visit the store nearest you offering **Successful Farming's** home planning service. Stores are listed on page 89.


**CAMPBELL-HAUSFELD**
*"Tankmobile"*

**Takes compressed Air Power anywhere on the farm**

The Tankmobile with the world famous Pressure Princess piston type air compressor will inflate your tires, grease farm machinery, paint farm buildings, spray insecticides and disinfectants the easy, time-saving way. Automatic start and stop. Electric motor or gas engine models. Immediate shipment.

***Write today for specifications and prices***

**THE CAMPBELL-HAUSFELD CO.**
**205 RAILROAD AVENUE, HARRISON, OHIO**

SUCCESSFUL FARMING

"I thought you said you had five years experience as a hired hand. For your information, you cool the milk after, not before milking."

after an owner gave full-strength Creolin to several cows that had winter dysentery. Every once in a while we see similar results following the giving of chloral hydrate crystals for acetonemia in milk cows.

Few winters go by without some horses seriously injured through "botting" with carbon tetrachloride or tetrachloroethylene. Such injury occurs when the animals break capsules between their teeth and free the terribly strong drugs in their sensitive mouths.

Many of the newer drugs are also dangerous when used improperly or in the wrong dosages. We have seen several costly examples of the misuse of sodium fluoride.

This drug is supposed to be fed as 1 percent of one day's dry grain ration for the removal of worms from pigs. Farmers are repeatedly cautioned against using it in wet feeds, but every so often it is mixed with slop, and some pigs are poisoned as a result. This happens because the fluoride settles to the bottom of such mixtures, and the last of the slop consequently contains most of the poisonous drug. The unfortunate porkers that get these dregs are seldom around to go to market with the rest of the pigs because they soon die.

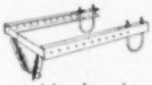
Deaths also may result if the feed contains 10 percent or 15 percent or more, instead of the recommended 1 percent. After all, fluorine is as much of a deadly poison as its sister elements, iodine and chlorine.

Even the many different highly publicized sulfa drugs can cause trouble if not given in carefully estimated doses over short periods of time. Such overdosing lowers natural resistance through decreasing the normal number of white blood cells in the body, and the collection of sulfa crystals in the kidneys does irreparable damage. So, the calf that died in spite of "all the sulfas we put in it" may have died because of the drugs and not because of their failure to control disease.

Other examples might well be cited, but the foregoing will give you an idea of how mishaps may occasionally be associated with medicines. Accidents sometimes happen even when the most careful and best of veterinarians is treating an animal. Therefore, it is reasonable to assume that mishaps will occur a lot oftener when skilled help is not available. If and when they do, maybe the medicines won't be to blame at all, so watch your step when using them. END


**Only CENTURY All-Purpose Sprayers have this 9-Way Master Control Valve!**

*And all these other Advantages for Boosting Profits through Spraying . . .*



• One Mount that fits all makes of tractors • Built-in Pressure Regulator and Dial Gauge. • Fast, easy raising, lowering or locking of boom arms from the tractor seat. • Positive, 3-way Strainer System cuts nozzle clogging.

• Century heavy-duty, gear-type, direct drive PTO Pump; up to 300 lbs. pressure and 480 G.P.H.; long life with five "take-ups" for wear; resists abrasive chemicals. • Century solid cone nozzles. • Boom height adjustable (without tools) 17 to 60 inches above ground. • Same Sprayer fits tractor, trailer or truck. • Century 80-gallon spray tank (available).

*Complete Line of Spraying Accessories*

Hand Gun or "Spot" Sprayer. Nozzles of various capacities. Nozzle "Drops". Extra long (33-ft.) Booms. Engine Pumps. Tanks. Trailers.

Free! PAMPHLET "100 Results from Spraying" Handy guide to increased crop and livestock profits through Spraying.

*9 Spraying Combinations—1 Control! Only on Century Model "A" Sprayers*

Master Control Valve Settings are as follows: 1. All spray outlets shut off. 2. All spray outlets open (including hand spray gun). 3. Only Hand Gun outlet open. 4. Center boom only open. 5. Right boom only open. 6. Center and right boom open. 7. All three boom sections open. 8. Left and center booms open. 9. Left boom open.

**FREE Literature on these Century Sprayers:**

**Model A**—Boom-type; for tractor, trailer, truck.
**Model B**—Boom-type; lower-priced, tractor-mounted.
**Model C**—Hand Gun "Spot" Sprayer Outfit.

**CENTURY ENGINEERING CORPORATION**
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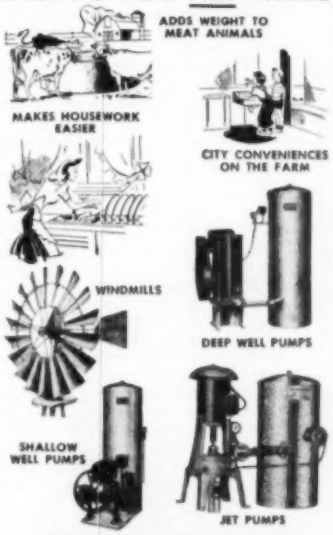
*Running Water*
**BRINGS YOU ALL THREE**

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For decoration, use Gold Bond Sunflex—the low cost wall paint that dries in one hour. If you prefer wallpaper, Gold Bond Gypsum Wallboard papers beautifully because it won't contract, expand or warp. And it's completely fireproof and moisture-resistant too. For more information, write Div. W, Dept. SF-5.

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BUFFALO 2, NEW YORK

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***HYDRA-GLIDE***

ACCELERATION that shoots you ahead like a rocket! Power that makes hills seem like straightaways! Smoothness that irons out bumps like magic! Steering that rests your arms yet gives full control! Road-hugging stability that lets you ride relaxed! Comfort that gives you day-long saddle ease! These and other advantages are yours exclusively in the Harley-Davidson Hydra-Glide! Own one on easiest terms. Start now to enjoy the thrills and fun of motorcycling, world's greatest sport. And on ranch or farm, use a Harley-Davidson to save time, work and money. See your dealer today.

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Send free copy of ENTHUSIAST Magazine filled with motorcycle action pictures and stories; also literature on new models.

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**BALED HAY**
**Ear Corn**
**Small Grains**

• Portable • Balanced
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**STANDARD**—Combination 3¾" Straight 6½" Flare Sides, D'bl. Chain, 10" across Chain, 19" across Trough.
*Elevators in any length...also 8' drag hopper available.*
**Over 9000 Now In Use.**
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# Livestock

### When BHC taints pork, or doesn't

SPRAYING or dipping hogs in benzene hexachloride (BHC) has raised the question of whether the spray material will affect meat flavor. Tests at the University of Illinois and several other agricultural schools point to the following conclusions:

1. Carcasses or lard from hogs sprayed one week before slaughter is likely to have an off-flavor and odor. 2. A weak water suspension spray of BHC applied to hogs two weeks or more before slaughter probably will not leave any objectionable off-flavors or odors. 3. While there's little data on flavor of beef sprayed with BHC, it seems likely that beef would be affected about the same as pork.

### Makes dry pigpen

WE KEEP a small number of hogs confined in pens. The sites are changed from time to time to new ground; hence, no concrete is ever laid.

However, we get around that situation by using unscreened agricultural slag as a floor for the pens. This grade is much cheaper than the screened slag and is quite as well suited for the purpose. It packs down well after a few rains and forms a hard, porous floor which immediately absorbs all precipitation.

All pigs are newly ringed before being placed in the pen. This prevents their rooting until the slag has packed.

When through using the site, we remove posts and fencing. The slag is then plowed under in the normal course of preparing the ground for planting. Being heavily charged with pig manure, the slag is beneficial to the soil.—*J. K., Ohio.*

### Creep-feeding suckling pigs

IN USING a creep for supplemental feeding of suckling pigs, it is a good practice to install two small self-feeders in the creep. One feeder should contain shelled or cracked corn and the other a protein supplement. Equal parts of soybean meal and meat scraps make a good protein supplement, if the pigs have access to pasture. If pasture is not available, the mixture may consist of equal parts of soybean oil meal, meat scraps, and high-quality alfalfa meal.

At the start, whole or cracked hulled oats may be used in the grain feeder to replace part or all of the corn. The grain feed may be changed to straight corn as the pigs develop. Tests show that little pigs prefer whole or cracked grains rather than ground feed.

When sows and their litters are run in small groups (not over three sows and litters per lot) and the sows are self-fed shelled corn and a good protein supplement, there is little advantage in giving the pigs access to the supplemental feed in a creep. This was brought out in recent tests reported by the Illinois Agricultural Experiment Station.

However, when a larger number of sows and their litters are run together, and especially when they are hand-fed, the use of a creep will bring about faster gains and help reduce death losses and injuries. You'll find this is especially true during cold, wet weather.—*C. D. L., Washington, D. C.*

### Makes good use of ear notching

JOE LAMMERS of Mower County, Minnesota, believes that ear notching is one of the most important operations in his hog-raising system. He uses the notching to develop a real brood sow herd, selected on the basis of individual performance. He notches each litter shortly after farrowing, and then watches the litters carefully.—*H. S., Minnesota.*

### Ground cobs make best litter

COB LITTER makes the finest kind of bedding for calves, sows, and chicks, according to Ralph Engelstad, Dodge County, Minnesota. He hauled in many loads of corncobs from neighboring farms last fall and ground them in his hammer mill at a cost of $1 per ton.

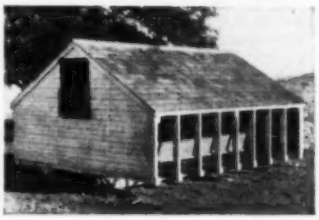
The litter was then blown up into the third floor of his combination hog and brooder house. When needed, the corncob pellets are chuted down to the main floor of this building, winding up in a truck to be hauled to the calf or hog pens.

Engelstad has found the corncob litter especially good in calf pens. He finds that it readily soaks up the moisture in the pens, enabling the calves to stay clean. Instead of his cleaning out the calf pens every other day, the cleaning job can be sidetracked for two or three weeks at a stretch. The soaked-up corncob litter is easily loaded into a spreader and, when spread on fields, rapidly decomposes.

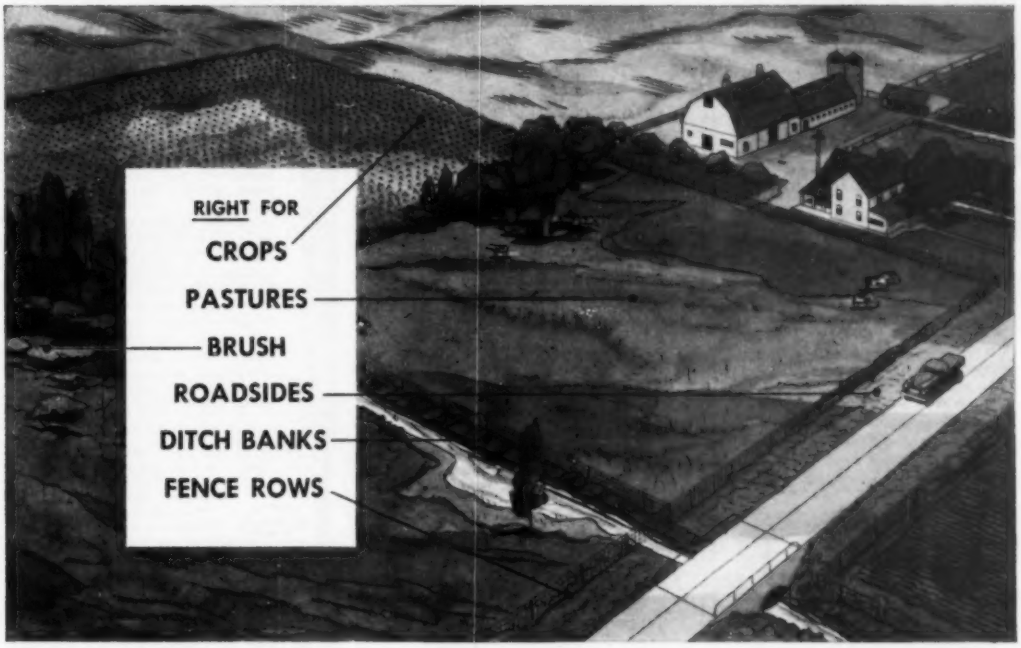
The corncob litter makes excellent scratch litter for baby chicks, too. "I'll never go back to straw for bedding," Engelstad says.—*H. S., Minnesota.*

### Portable calf creeps a big help

TO GIVE his calves a running start for market, Benedict Dietrich feeds grain on pasture in the portable creeps (shown below) on his farm in Washington County, Kansas. His first creep feeder on wheels was so successful that he built one on skids, which holds several hundred bushels of grain and has room for 16 calves at a time. Even when loaded, the feeders are easily moved by tractor from one pasture or water reservoir to another on his farm.—*L. E. C., Kansas.*



# Dow Weed Killers Are Right For Your Farm!




JUST name your weed problem—and your dealer will name the *right* Dow Weed Killer to meet your particular need. You can depend on Dow Weed Killers to do nearly every weed-killing job on your farm—quickly, effectively, economically. This is because Dow makes not just one weed killer, but EIGHT—each product developed for specific uses.

### For Grains, Corn and Flax

The crop-tested weed killer—2-4 Dow Weed Killer, Formula 40—is ideal for regular or low volume spraying in growing crops. Quality ingredients and expert manufacturing eliminate offensive odor. For postharvest spraying, to catch thistles and other stubborn perennial weeds, Esteron 44 is widely used. For spraying flax, peas and legume-interplanted grains, Dow Selective Weed Killer is recommended.

### For Pastures

Wild onion, wild garlic, mustard and other common pasture weeds are controlled by spraying with Esteron 44. Esteron Brush Killer should be used to control brush and poison ivy.

In pastures where alfalfa or clover make up a large percentage of the forage, spot treatments of weed infestations may be made to minimize 2,4-D injury to the legumes.

### For Roadsides, Fence Rows, Ditch Banks

To clean out the weeds in these hard-to-reach spots, a thorough spraying with either 2-4 Dow Weed Killer, Formula 40 or Esteron 44 is highly effective. Or Dow General Weed Killer may be used for a "chemical mowing" of above-ground vegetation, leaving roots to prevent erosion. If undesirable grasses are a problem, use Sodium TCA 90%, either alone or in combination with Dow Weed Killers.

### For Brush and Tree Stumps

For spraying stumps and brush stubs to prevent re-sprouting, use Esteron 245 or Esteron Brush Killer. Good results can be obtained with dormant season application as well as application during the growing season.

### NOW GET RID OF GRASS!

Dow Sodium TCA 90% may be used for either spot treatment or over-all spraying of grass-infested areas. It controls perennial grasses such as Johnson, quack and Bermuda. At lower dosages, it kills annual grasses such as crabgrass, foxtail and chess—and suppresses perennial grasses without causing kill where a permanent grass cover is desired.

*Ask Your Dealer for*

# *Dow Weed Killers*

**USE DEPENDABLE DOW AGRICULTURAL CHEMICAL PRODUCTS**

**Weed and Grass Killers • Insecticides • Fungicides • Seed Protectant • Plant Growth Regulators • Grain and Soil Fumigants • Wood Preservative**

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Quick . . . Effective!

Controls Coryza (colds) in poultry

DR. SALSBURY'S
Ar-Sulfa

**Reduces Costly Egg Loss**
**Easily Used in Drinking Water**

You control infectious coryza (colds) quickly with Ar-Sulfa. Brings about flock improvement within 48 hours. Contains sodium sulfathiazole. Liquid form for easy use. Give at first signs of an outbreak as do thousands of successful poultry raisers. Buy at hatchery, drug or feed store.

Relieves Nasal Congestion of poultry

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Inhalant for Poultry

**Easy To Use**
**Loosens Mucus and Phlegm**

When stuffy, congested nostrils hold birds back . . . use Can-Pho-Sal as spray, inhalant or nasal wash. Eases breathing. Helps birds feel better . . . do better. Popular with poultry raisers for many years. Buy Can-Pho-Sal on your next trip to town. At hatchery, drug or feed store. Dr. Salsbury's Laboratories, Charles City, Iowa.

**When you need poultry medicines, ask for**

Dr. SALSBURY'S

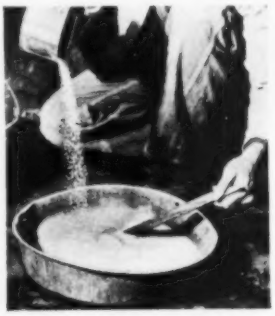
## Healthier pigs

[ *From page 45* ]

when the pig is standing and you look at him from behind, you cannot see the lower or forward end of the slit. This insures good drainage of the wound.

Pull the testicle out. This breaks off the cord, insuring less hemorrhage. A cord that breaks off high up in the canal cannot become infected. It is an infected cord end that results in the castration tumor which follows so many jobs of castration.

**Vaccinate** for cholera at about 8 weeks—a week before or after weaning. Have pig in good shape. Don't stick in ham; it may cause abscesses



**Necro remedy** is made by adding 1 pound salt to 5 gallons buttermilk. Provide water with hypochlorite solution added (6 oz. to 50 gals. water)

**Soak oats** in the buttermilk and salt solution. Bring pigs back to a full feed slowly. See article for other ways of treating this ailment

*A Nicholson file's teeth—highly magnified—look like this*

**It's the *business end* that counts**

A file is only as good as the tips of its teeth. But how can *you* tell when you've got the best? You can't see file-tooth quality. The surest way is to look for the trademark. If it's a Nicholson or Black Diamond, you're on the right track. For these world-famous files are made with great care in selecting steel of the right grain and quality; and with special attention to the hardening of their "business ends"—the tips of the teeth that do the cutting.

You'll get fast filing, maximum wear, and top value for your money every time you say to your hardwareman, "It's got to be a Nicholson or Black Diamond."

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NICHOLSON FILES FOR EVERY PURPOSE

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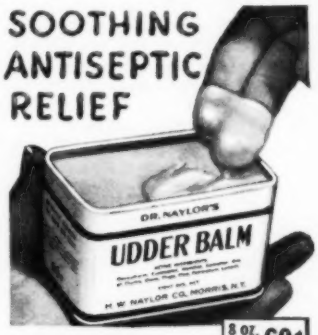


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**Congestion, Cuts and Bruises**

Dr. Naylor's Udder Balm combines the bacteriostatic action of Oxyquinolin with the softening and absorbing action of Lanolin and Essential Oils. A fast, effective ointment for udder and teats—to reduce congestion, danger of external infection and promote clean, rapid healing. Mailed postpaid if your dealer cannot supply.

**H. W. NAYLOR CO. • MORRIS 7, N.Y.**

**Another Dependable Dr. Naylor Product**

Use clean instruments and disinfect the skin before the incision is made. Pigs turned into clean maternity stalls run small chance of infected wounds.

**Big roundworms** do much greater damage to the internal organs of a pig than most folks realize.

Sodium fluoride is a very effective vermifuge and easy to give. Find out how much dry feed a given lot of pigs will eat in a day and add ¾ pound of the drug to each 100 pounds of feed (see picture, page 45). If the pigs do not eat it all, mix what is left with the next day's feed. Don't fast the pigs previously and don't use this drug in wet feed or slops.

Every lot of pigs should be treated preferably when they weigh between 50 and 60 pounds. If many worms are passed, repeat the treatment in one month.

**Mange** is easy to kill with benzene hexachloride. This chemical is insoluble in water but can be obtained mixed with some wetting agent.

Follow directions or see that you have .25 percent or less gamma isomer of benzene hexachloride in the water. Spray or dip the animals thoroughly (see picture, page 44).

Usually one treatment will do the job, but repeat if necessary. To get a good cleanup, treat the buildings, too. The better preparations leave only a slight musty odor which vanishes from hogs in two or three days. These preparations will also kill hog lice.

**Hog cholera** sometimes strikes small suckling pigs, although pigs from immune sows usually will resist as long as they are living mostly on their mother's milk.

The best time to vaccinate the pig is a much-discussed question, but the most widespread custom is to give the treatment when the pig is from six to eight weeks of age. This is close to weaning age for most pigs, and some authorities say a week or so before and others a week or so after weaning. This size of pig demands about the minimum of serum to insure long-lasting immunity and gets the pig when small and easy to handle.

Beside the factor of age, keep in mind that it is important that the pig be in good condition, free from evidences of ailments or other infections, especially the bowel diseases and upsets. Overlooking that point resulted in heavy losses on some Midwestern farms last summer. The disadvantage of serum and virus treatment is that the virus infects the premises with cholera.

There are two relatively new products for immunizing hogs against cholera. One is known as the B.T.V. and the other as crystal violet vaccine. Their advantages are that they do not bring cholera infection onto the premises, and they do not shock the animals' health so severely, so there is no need of cutting the feed. Even animals suffering from some mild digestive derangements are seldom aggravated.

Do not use these vaccines on hogs that have been exposed to hog cholera or are likely to be exposed for three weeks. That much time is required to develop immunity. Since the expected duration of immunity is six to eight months, hogs kept as breeding stock need another treatment.

These new vaccines definitely have a

[ *Turn to page 160*

***Stop Losses With***

**THE ALL-PURPOSE SULFA . . .**

# SULMET*

SULFAMETHAZINE *Lederle*

**Highly Effective Against Pneumonia, Strangles, Septicemia, Bacillary Enteritis and Navel Ill in Foals**

Save your animals and cut treatment costs by using SULMET Sulfamethazine promptly when horses, cattle, hogs, sheep or poultry are attacked by destructive bacterial diseases.

Once-a-day treatment brings quick results—often animals return to normal feeding after one treatment. High effectiveness, low cost, ease of administration and avoidance through once-a-day treatment of exciting nervous animals, all combine to put SULMET Sulfamethazine in a class by itself among veterinary drugs.

SULMET Sulfamethazine is available in six dosage forms: POWDER, TABLETS, OBLETS*, EMULSION, SOLUTION 12.5% (for use as a drench, or in poultry) and INJECTABLE SOLUTION available by or on the prescription of a veterinarian. Read carefully the circular enclosed in the package for *best results* in the use of this product.

Your veterinarian is your dependable ally in the constant war against diseases. Consult him for the most effective management practices and disease-control procedures to meet your individual needs.

Literature gladly sent upon request.

*Reg. U. S. Pat. Off.

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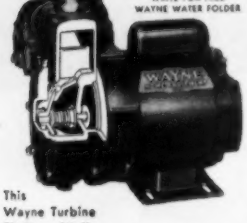

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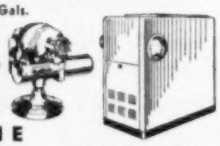

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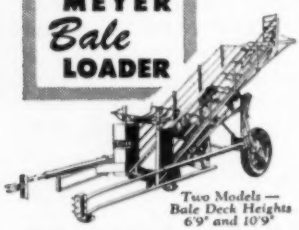

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## Healthier pigs

[ *From page 159* ]

place in hog raising, and we will see an increase in their use. Until recently, crystal violet was available only through a veterinarian, but one pharmaceutical house now is selling directly to farmers.

**Necro,** enteritis, necrotic enteritis, and chronic scours are all names given to one of the most common ailments of young pigs and shoats. The causes are several. They include lack of labor to keep the pens clean, lack of feeding facilities or watering equipment, poor water supply, changing weather, chill, virus reaction following vaccination, and shock to a pig, as from weaning.

From a nutritional angle, the causes may be an inadequate or unbalanced diet, such as too much corn or no animal protein in the ration, or a deficiency of Vitamin A or the B-complex vitamins.

Pig pellagra or the form of chronic scours due to improper diet, as shown by the Michigan and Wisconsin experiment stations, can be largely prevented and often corrected by feeding more oats and better protein feeds, instead of so much corn. These stations proved that the protein must be above 14 percent to insure safety against this form of enteritis in the small pig, and some of it should be of animal origin. Here also is a place for using APF, due to its high Vitamin-B-complex content.

Another form of necro is caused by too great an intake of harmful germs with food or water, due to unsanitary conditions of living. It is best corrected by improving the sanitation and adding alkalinizing agents to the feed and water.

A widely used home remedy is 1 pound of salt to each 5 gallons of buttermilk. Allow a good fill of this every day, but be sure to keep close at hand a good supply of water. To each 50 gallons of this water, add 6 ounces of a hypochlorite solution. Soak oats in the milk and salt for feed, and bring the pigs back to full feed slowly.

The bloody scours is usually acute and acts swiftly, so sort the herd quickly and remove those which still seem healthy. Stop the feed and flush the pigs with 1 pound of baking soda to each 10 gallons of water. Scrub the floors with the strong hypochlorite solutions or lye water.

> **The difference between a gentleman farmer and a dirt farmer is a harvest.**
> —*Buster Rothman*

If the pigs can be kept on clean cement floors it helps greatly, while injections of anti-hog-cholera serum will help to sustain them. These pigs are dehydrated, so into-the-belly injections of combinations of the sulfa drugs and dextrose, along with the dosing with sodium sulfathiazole or sulfapyridine, are also a good treatment. However, this treatment should only be used under the watchful care of a veterinarian who can determine just how much will be beneficial, and where to stop.

Bring the pigs back to a full feed slowly and sparingly, especially with respect to corn. Dried brewers' yeast, fish meal, liver meal, and APF are all beneficial in the diet of pigs that have had necro. Never keep animals that have suffered from this disease as breeding animals. END

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## Watch for these pig troubles, too

**Baby pig disease** is a term that covers several different conditions. Recent studies indicate that there is one virus-caused disease now known as "infectious gastro-enteritis." It starts during the first days of life, comes with a sudden onset, and heavy death loss always results.

There is abundant evidence that it is easily spread from litter to litter and that the principal symptom in the small pigs is scours, accompanied by acute inflammation of the stomach and intestines. At the onset, pigs are subject to severe shivering and vomiting; then they get dull and listless, show no desire to nurse, and crawl away to hide in the bedding. They usually die in 24 hours after the first symptoms are noticed.

It is most deadly when it shows up on the first or second day of the pig's life, for few pigs of the litter live. Those that do may die a week to a month later. These older pigs show very red stomach lining, a thickened intestinal wall that is inflamed and red, and also congested kidneys. The few that live a few weeks longer are undersized and in poor condition, even though on good rations.

Because this disease seems to occur less in the litters of sows on grass, investigators at the Missouri Experiment Station have suggested the possibility that, while a virus may be largely responsible for it, some vitamin deficiency is also a contributing factor.

If baby pig disease starts in your lots, do all in your power to cut off communication between that pen and all others on the place, even to having separate attendants. No effective treatment is known. Older hogs may suffer from this virus, but seldom die.

**Scours** is a symptom only, and not a disease in itself. The causes are several.

It may be that the pig was chilled at birth, or soon after. Inadequate or unbalanced diet of the mother during gestation often results in undersized, weak pigs, which are far more likely to suffer. Anemia is a contributing cause. Digestive upsets of the mother may scour the pigs.

There are a few specific diseases of the mother, particularly brucellosis, where the pigs are carried to full term but are weak and hence fall ready victims to scours soon after birth. This form has often been termed "white scours," and it occurs early in life, with high mortality.

Pigs require much more Vitamin A in cold weather. This may explain why pigs born in dark, damp, or drafty pens not only cannot sleep and rest in comfort but also suffer from scours. They also are exposed to more filth germs when the sow lies down to let them suckle. The intestine is infected, so the food decomposes and the pigs scour. Some digestive upsets are caused by a lack of enough vitamin intake, such as niacin and Vitamins A and C, to help fortify the intestinal walls against invading bacteria.

Overloading the stomach of hungry animals with excessive amounts of food is a frequent cause of scours, particularly

[ *Turn to page 162*

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## Pig troubles

[ *From page 161* ]

in the orphan pig not fed often enough or fed unclean foods.

When scours occur before the pigs are three days old, it is fatal to many, no matter what the cause, as it weakens the small infant and pneumonia sets in.

If it appears that the nutrition of the sow may be responsible, feeding her a tablespoonful of baking soda in the drinking water twice daily, or a spoonful of dried blood as often, may improve matters. Others like to put a half ounce of formalin in the sow's ration twice daily for a day or two. Reducing her rations to whole oats for a few days frequently proves beneficial. Where it is a follow-up to abortion or brucellosis infection, little can be done, though antiserums are sometimes used.

**Swine pox** is a virus-caused disease, spread largely by hog lice. Some attacks are mild, but they always give the herd a severe setback and may kill a few. Severe complications and some deaths are the rule if pox is present when pigs are vaccinated with hog cholera virus.

It starts as small red spots which soon become water-filled blisters. These later burst, leaving a small, sharply outlined circle of raw, open sore. If these become soiled and infected with filth and dirt, pus germs may develop there and the pigs grow very sick. They are all off feed and have a fever, shrink in weight, and are weak. The raw sores scab over, and finally the scabs fall off, leaving a light spot on the skin.

If kept clean and given good care, the majority will recover, but protect them from bad weather and avoid any operations until they do.

**Erysipelas** has now spread all over the Cornbelt. It resembles cholera and may occur in a very acute form most often seen in very young pigs, a milder, slower-acting form, or very chronic form with little or no death loss.

The acute form can often be handled by injections of anti-hog-cholera serum, or better, anti-erysipelas serum. Some outbreaks require use of the anti-erysipelas serum combined with the culture of the germ to build higher, longer-lasting immunity. But we never should use the culture of the germs on premises where the disease has not already established itself. Even this system does not establish a lifetime immunity.

In recent years some improvement has been made in treating the acute outbreaks of erysipelas by combining anti-erysipelas serum and penicillin. **END**

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# Veterinary

### Watch that cow!

About a year ago we saw a cow that had fallen in a ditch shortly after freshening. The owner noticed she was somewhat wobbly on her feet after calving, but had thought little of it until she blundered off into the ditch and couldn't get up again. The trouble was diagnosed as milk fever, and the cow climbed out under her own power a few minutes after treatment.

All of which is a reminder that staggering or weakness of the hindquarters shortly before or after calving should be suspected as an early symptom of milk fever. Better not wait for animals to "go down" before doing something for them.

### Calf tetany on young pastures

Last spring one of our Missouri farmer friends ran into a puzzling problem.

He had turned his purebred beef cows with calves at side onto an unusually lush, river-bottom pasture. Two or three weeks later the calves began to develop fits and convulsions. Several died.

Blame was placed on poisonous weeds or some infective agent until a veterinarian was called and ironed out the problem. He told the owner that this calf disease is called tetany, and that it is related to a defective balance of magnesium in the blood of the nursing calf. This, in turn, goes back to some unknown element or factors present in young grasses which throw the calcium and magnesium blood levels of the cows off balance.

Grass tetany often is seen in cows as well as in calves. The symptoms sometimes closely resemble those of milk fever, except that there is more inclination to spasms of the muscles.

Preventive measures include providing about 10 percent of calcium and magnesium salts in the stock salt, tossing the cows a few forkfuls of sun-cured hay each evening, or holding cattle off the young grass until it has had time to firm up a bit and become more mature.

Most cattle sick with grass tetany can be saved if the veterinarian is called promptly. He injects a mixture of lime and magnesium salts into the neck vein.

### Pig pneumonia

We recently saw some fair-size pigs that had pneumonia. They had been quartered in a portable hog house.

Unnoticed by the owner, his pigs had simply grown until there was no longer room for all of them in the shelter. Consequently, when they piled up and went to bed, some of the animals on the outer edge had to sleep out in the cold.

Springtime means warm days and chilly nights, and such extremes of temperature can easily spell trouble for "crowded-out" pigs. Better look yours over pretty often to be sure there's still room for all of them on the inside.

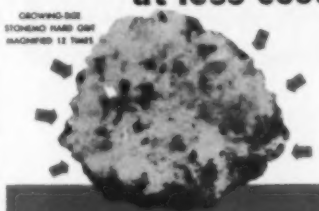
### Helpful reminders

Too early removal of retained fetal membranes from cows is a common cause of metritis (inflammation of the womb) and future breeding difficulties.

• • •

The best way to waste money when disease is causing losses in the poultry flock is to spend money for treatment before finding out the cause. END


***See why* growing birds make faster gains at less cost**

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There is often confusion about soluble vs. insoluble grit. Make this test. Drop some of the "grinding agent" you are using in a glass of vinegar. If it fizzes or bubbles, that means it's soluble—will dissolve—and should not be used as a grinding agent! Now—try STONEMO! See the difference!

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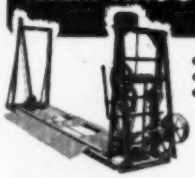

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## MAY POULTRY POINTERS

- Cannibalism
- Range feed
- Newcastle

**How to control cannibalism.** Colony brooder houses warm up quickly on warm, sunny spring days. If they get too warm, cannibalism may break out.

At high temperatures, chicks become uneasy, nervous, and they may start toe- or feather-picking. A little blood is drawn, and a bad case of cannibalism develops.

High temperatures aren't the entire cause. The trouble may be due to overcrowding, confining chicks to the brooder house too long, lack of green feed, or rations deficient in fiber.

Let the chicks outside on a sun porch or gravel yard if possible. Provide one 3-foot feeder for each 50 chicks, and keep feed before the chicks.

Many poultry raisers, in the case of chicks over 4 weeks of age, find that placing a hopper of heavy oats in the brooder house aids in preventing cannibalism. Feeding extra green feed also has been found to be helpful.

When an outbreak has occurred, adding 1 tablespoonful of salt to a gallon of drinking water for 3 days may temporarily help stop the cannibalism until other possible causes are corrected.

**Pullet range cuts feed costs.** Research at the University of Vermont shows how good range can reduce feed costs. During the 24-week growing period required to develop a good pullet, it was found that each pullet raised in confinement ate 33½ pounds of feed, while full sisters on good range took only 29½ pounds.

**New way to feed on range.** Pictured on the opposite page is a range-feeding method followed by Earle Fowler, Bennington County, Vermont. The pellets are scattered in the morning and scratch feed at night from a slowly moving truck. On rainy days, extra grain replaces the pellets. The truck takes a different route each time, thereby keeping the range in best condition.

Fowler claims that the ground-feeding method saves time, encourages birds to graze farther from shelters, reduces feed spoilage, and eliminates free feeding for rats. A lime spreader also can be used for dropping the feed.

This method has been followed for four years by the University of Massachusetts poultry department. They find that pellet feeding should be started about two weeks before the pullets go to range so they will become used to the sight of pellets and eat them.

The college flock is kept confined to shelters and fed from hoppers for the first two days on range. Then they are fed entirely on the ground.

During the first few days it is necessary, of course, to feed them close to shelter. The ration consists of about 50 percent

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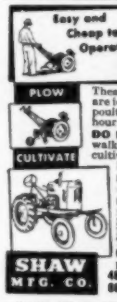

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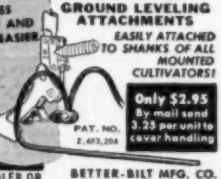

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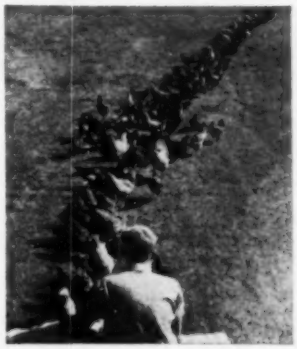

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**Raise Bulbs For Profit.** Tremendous demand. Marketing services. Write Mission Hill Gardens, Box 224, Ashtabula, Ohio.

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**Top Prices Guaranteed.** For correct weight, free tags, immediate remittance, ship to this old, reliable firm. Used feathers, send sample for price. Progress Feather Co., 657 W. Lake St., Chicago 6, Ill.

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**Highest Cash Paid** For Old, Broken Jewelry, Gold Teeth, Watches, Silverware, Diamonds, Spectacles. Free Information. Satisfaction Guaranteed. Government Licensed. Rose Smelting Company, 29-D East Madison, Chicago.

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**Decorating advice.** Stores offering Successful Farming's home planning service are listed on page 89. Visit the store nearest you for help with your decorating problems.

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**Increase Your Income** by raising domestic rabbits. Small space needed. Ready market for delicious meat, fur and wool. Largest magazine in the industry tells you how. $1.50 per year. Sample 15 cents. No stamps.
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**THERE'S STILL TIME To Get Helm's 200-339 Egg R.O.P. Sired Chicks.** Prompt delivery. Real quality. Famous trapnest strains. Leading breeds. U.S. Pullorum Passed. Wonderful livibility. Three world Egg Contest Records. Send for FREE CATALOG.

Turkey Poults
Baby Ducklings

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**110 CHICKS, *special* $7.90**

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Please remember 2 things when you read these sensational prices: (1) They are for 110 chicks, (2) Hayes' chicks are world famous for excellent quality . . . fine meat birds and egg contest winners. Scott Hayes won FIRST Rhode Island pen and hen, Second Barred rock pen and many other prizes last year in Official Illinois Egg Laying Contest. ORDER NOW to avoid disappointment. 95% sexing accuracy guaranteed. We pay postage on cash-in-full orders. You pay postage on C. O. D. orders. ORDER TODAY.

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| White Leghorns | $10.90 | $3.90 | $20.90 |
| N.H.Reds.Barred.Wh. & Buff Rocks, Wh. Wyandottes, S. C. Reds | $10.90 | $9.90 | $14.90 |
| Br., Buff Leghorns, Anconas, Wht. & Buff Min. Wht. & Blk. Giants, S. L. Wyans, Buff Orps, Blk. Australorps | $11.90 | $4.90 | $21.90 |
| Mixed Heavies | $13.90 | $12.90 | $15.90 |
| Mixed Chicks—May be all pullets, all males or str. hatch—at least ½ heavy breeds, per 110 | $7.90 | Light breeds for broilers, mostly males. | $3.90 |

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**SCOTT HAYES CHICKS**

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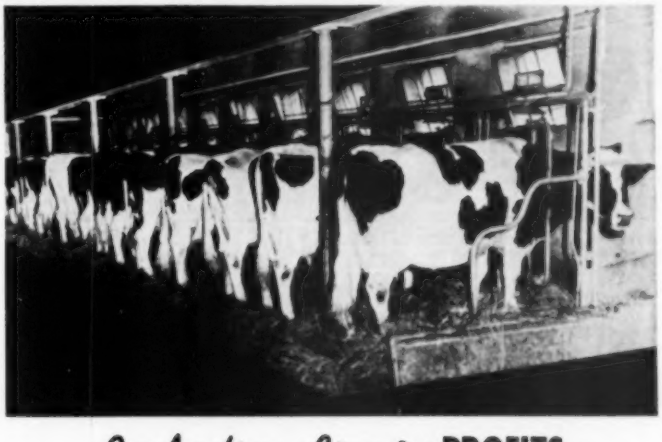

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ABILITY TO UTILIZE HOME GROWN FEEDS
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LOW PRODUCTION COST

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**Write for prices** on Schroer's Better Plants. Frostproof cabbage—Leading Varieties. Onions—Sweet Spanish, Prizetaker, Crystal Wax, Yellow and White Bermuda. Tomato—Pritchards Scarlet Topper, Marglobe, Rutger, Break O'Day, Stokesdale, Greater Baltimore, Bonny Best, Florida Special, Valiant, Gulf State Market. Pepper—California Wonder, World Beater, Hungarian Wax. Eggplant and Broccoli. We guarantee good plants and prompt service. Schroer Plant Farms, Valdosta, Georgia.

**May Specials**—100 Gem, Streamliner or Minnesota 1166 Everbearing Strawberries—$2.25, 500—$10.00. Dunlap, Premier, Beaver, Blakemore, Minnesota 1118—200—$2.50, 1000-$11.00. 25 Cumberland or Latham Raspberry—$2.25. 50 Washington Asparagus or 20 Mammouth Rhubarb $1.00. 25 Eldorado Blackberry or Thornless Boysenberry—$2.25. 15 Concord or Niagara Grape $1.50. 50 large blooming size gladiolus—$1.00. Everything postpaid. Rider Nursery, Farmington, Iowa.

**Certified Plants, Pay Postman**—Frostproof Cabbage, Broccoli, Brussel Sprouts, Cauliflower, Eggplant, Onions, Pepper, Tomatoes, 200, $1.00; 500, $1.50; 700, $2.00; 1,000, $2.50; 5,000, $10.00. Transplanted plants, 100, $1.50; 500, $5.00; 1,000, $9.00. Sweet Potatoes, $3.00 per thousand. Leading varieties, mixed as wanted, mosspacked. East Texas Plant Co., Dept. 8, Ponta, Texas.

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**Eat fruit** from our Everbearing Strawberry Plants 60 days after planted. Bears until winter: Streamliner, Bruns Marvel, Varieties. (25 for $1.00), ($1.75 for 50), (100 for $2.95), ($5.25 for 250), (500 for $10.00), ($19.95 for 1000). South Michigan Nursery, Box 675-C, New Buffalo, Mich.

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**Genuine** English Shepherd Pups Guaranteed heelers. Year's Trial. Males, Females, Spayed Females $15.00. Distemper vaccinated, also Registered Collies.
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**Genuine** English Shepherd pups—(Distemper Vaccinated). Guaranteed Heeldrivers. Year's Trial. Training Instructions. Males, Females, Spayed Females.
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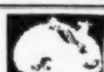

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| | Str. Hatch Per 110 | Males Per 110 | Pullets Per 110 |
|---|---|---|---|
| Aust. Whts. Minorca X Leg. Hamp X Leghorns | $11.90 | $4.90 | $21.90 |
| White Leghorns | $10.90 | $3.90 | $20.90 |
| N.H. Reds, Barred, Wh. & Buff Rocks, Wh. Wyandottes, S. C. Reds | $10.90 | $9.90 | $14.90 |
| Br., Buff Leghorns, Anconas, Wht. & Buff Min. | $11.90 | $4.90 | $21.90 |
| Wht. & Blk. Giants, S.L. Wyans, Buff Orps, Blk. Australorps | $13.90 | $12.90 | $15.90 |
| Mixed Heavies | $9.90 | $8.90 | $11.90 |

**Mixed Chicks**—May be all pullets, all males or str. hatch—at least ½ heavy breeds, per 110 . . . $7.90
**Light breeds** for broilers, mostly males, per 110 . . . $3.90
"AA" and "AAA" Grade Chicks slightly higher.
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# All around the farm

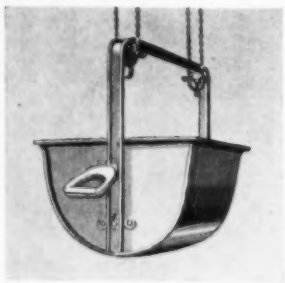
*A page written by our readers*

When planting cucumbers, I make frames 14 inches square out of 1"x6" lumber, tack screen wire over the frames, and place them over the cucumber hills. They keep all flying insects away until vines are large enough to work.—*Mrs. G. E. C., Illinois.*

When painting anything made of galvanized metal, I first paint the object all over with vinegar, and let it dry. I then spread on the paint. The paint stands up much better without peeling off.—*L. R. S., Kentucky.*

When we feel we must have coated nails for greater holding power than the ordinary kind, we dip nails in a solution of resin dissolved in turpentine. We then spread the nails on a newspaper to dry. But keep them away from heat or fire.—*B. M. P., Indiana.*

I put a sawed-off shovel handle on my carrier, as shown in the drawing. This



is both safer and cleaner to grab hold of than the frame. If the carrier trips accidentally, there is no danger to the hand.—*E. V. G., Minnesota.*

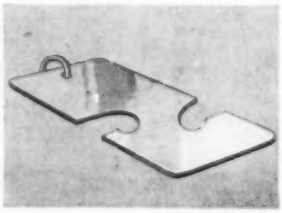
A floor-wax applicator makes play of applying special concrete paint to our concrete floor. It spreads the paint evenly and permits the job to be done from a standing position. We pour the paint into a shallow pan to make it easy to get at the paint with the wax applicator.—*Mrs. L. W. F., Iowa.*

To help keep cattle free from lice and to stop their rubbing around door openings and against fence posts, I made the oiler device illustrated. I welded together two pieces of ½"x 3" iron to form a 90-degree angle, and welded another short piece across the angle. To this bracket I bolted half an old automobile tire.

On the top of the frame, I drilled a hole through the iron and tire and tapped the hole for a ⅜" pipe nipple. To the upper end of the pipe I fastened a can to serve as an oil reservoir. In the tire edges I drilled holes, then rolled up a quantity of oil-soaked burlap and packed this into the tire casing. Next I passed wire through the holes in the casing and the burlap roll, fastening it in place.

I fastened the oiler to a fence post with the end of the frame braced to adjacent posts. Any medicated oil or treatment material can be fed through the can into the burlap packing. The device is set away from buildings to avoid fire danger from spontaneous combustion if oil is used.—*H. W. C., Wisconsin.*

For pulling sprouts rapidly while the ground is soft, I made a grab out of a shoe from a crawler tractor track. The farmer for whom I made this brought

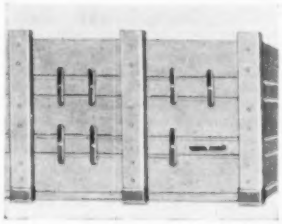


in the track section, and with a torch I cut two notches in the sides, one about 1½" across, the other 2½" as shown in drawing. There is space enough for additional small notches to pull smaller sizes, if desired.

At the end of the plate I burned a round hole and set in a 3" link of ⅝" round iron to which the chain on the tractor drawbar may be hooked. With the notch in the side slid around a sapling of the largest size the notch will take, the grab will not slip, and the sapling will be either broken or pulled, roots and all, from the soft ground. The best time to use this equipment is soon after frost is out of the ground.

This is several times faster to put on and take off the sapling than a log chain and grab hook. The man for whom I made this says it is worth a hundred dollars to him just on the basis of speeding up land-clearing he has been doing.—*R. W. H., Missouri.*

To convert the body of a truck or trailer with stock rack into a grain-tight box, I have made inserts of wood



that are the same thickness as the sides of the stock-rack body, and as wide and long as the spaces between the sideboards. I put two cleats on each insert between each rack upright. These cleats may be made of ¼"x1" strap iron, bent as shown in the diagram, or they may be made of wood. When they are vertical, they hold the inserts in place. When horizontal, the inserts may, of course, be removed quickly.—*J. L. McD., Minnesota.*

*Successful Farming* will pay $5 for each item upon publication. You are invited to send us your ideas. We consider each one carefully, but regret we cannot return those not published.—*The Editors*

*o-o-o-o-oh!*

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